

Exhibit C

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6 THIS DOCUMENT RELATES TO ALL Joseph R. Goodwin
WAVE 4 PLAINTIFFS U.S. District Judge

12 DEPOSITION OF

13 Michael Fi egen, M. D.

15 APPEARANCES:

16 Mr. Nate Jones (via telephone)
Wagstaff & Cartmel I, LLP
17 4740 Grand Avenue, Suite 300
18 Kansas City, Missouri 64112

19 for the Plaintiffs;

20 Mr. Barry J. Koopmann
Bowman and Brooke
21 150 South Fifth Street, Suite 3000
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for the Defendants.

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2 INDEX TO WITNESS

2 Examination

3 by Mr. Jones: P. 3, 133
4 by Mr. Koopmann: P. 112, 137

5 INDEX TO EXHIBITS

	Marked for Identification	Offered into Evidence
7 Exhibit No. 1 (Notice to Take Deposition of Michael Fiegen, MD)		P. 39
8 Exhibit No. 2 (Three Flash Drives)		P. 42
10 Exhibit No. 3 (Seven Disks)		P. 43
12 Exhibit No. 4 (Expert Report of Michael Fiegen, MD)		P. 43
13 Exhibit No. 5 (Documentation of Hours for Michael Fiegen, MD)		P. 43
15 Exhibit No. 6 (Consul tant Invoice)		P. 44
16 Exhibit No. 7 (Correspondence)		P. 44
18 Exhibit No. 8 (An Ambulatory Surgical Procedure Under Local Anesthesia for Treatment of Female Urinary Incontinence)		P. 84
20 Exhibit No. 9 (Evaluation and Management of Midurethral Slings Complaints)		P. 86
22 Exhibit No. 10 (United States Patent No. US 7,611,454 B2)		P. 88
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1 STIPULATION

2 It is stipulated and agreed, by and

3 between the above-named parties through their

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4 attorneys of record, whose appearances have been
5 hereinabove noted, that the deposition of MICHAEL
6 FIEGEN, M.D., may be taken at this time and place,
7 that is, at the Courtyard Marriott, Sioux Falls,
8 South Dakota, on the 17th day of March, 2017,
9 commencing at the hour of 8:30 a.m.; said deposition
10 taken before Pat L. Beck, Registered Merit Reporter
11 and Notary Public within and for the States of South
12 Dakota and Minnesota; said deposition taken for the
13 purpose of discovery or for use at trial or for each
14 of said purposes, and said deposition is taken in
15 accordance with the applicable Rules of Civil
16 Procedure as if taken pursuant to written notice.
17 Objections, except as to the form of the question,
18 are reserved until the time of trial. Insofar as
19 counsel are concerned, the reading and the signing
20 of the transcript by the witness is waived.

21 MICHAEL FIEGEN, M.D.,
22 called as a witness, being first duly sworn, deposed
23 and said as follows:
24 EXAMINATION BY MR. JONES:
25 Q Hi, Doctor. My name is Nate Jones. I'm an

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1 attorney that represents the Plaintiffs in this
2 litigation. Do you understand that this is my
3 opportunity to ask you questions about the opinions
4 that you have rendered in this litigation?
5 A Yes. Yes, I do.

6 Q 031717Fi egen.txt
6 Q Could you state your name just for the record,
7 please.

8 A Michael M. Fi egen.

9 Q And, Dr. Fi egen, have you ever acted as an
10 expert witness before?

11 A I have.

12 Q Have you acted as an expert witness in any
13 transvaginal mesh cases before?

14 A No, I -- no. No, I have not. I had my
15 deposition taken regarding a single patient.

16 Q Tell me more about your deposition taken
17 regarding a single patient.

18 A I was asked by a colleague to evaluate a
19 patient who was having mesh-related complications.
20 I saw her. I offered her my thoughts and my
21 recommendation, and that was the extent of my
22 involvement with that patient.

23 I was subsequently -- when she filed suit
24 against Johnson & Johnson, I was subsequently asked
25 to provide deposition testimony regarding her -- my

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1 involvement with her.

2 Q Were you a treating physician of this patient?

3 A No. I was simply a consultant.

4 Q What mesh -- what Ethicon mesh product was
5 implanted inside of this patient?

6 A The ProLift mesh.

7 Q And in your consultation work did you form any
8 opinions related to this patient's mesh-related

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9 complications?

10 A I did.

11 Q And what were those opinions?

12 A I felt that the patient had an allergic
13 response to the prolene mesh and that that was why,
14 despite having removed an overwhelming majority of
15 the material, that she continued to experience
16 discomfort and pain.

17 Q Did you perform the removal surgery?

18 A No.

19 Q You formed an opinion with a patient that a
20 patient suffered from an allergic response to the
21 prolene mesh used by Ethicon?

22 A That was my opinion.

23 Q And what did you base that opinion on?

24 A My medical experience.

25 Q And you gave a deposition related to that

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1 patient; correct?

2 A I did.

3 Q And do you recall the name of that lawsuit?

4 A I'm not sure. Are lawsuits named?

5 Q Yes.

6 A I remember the patient but that's the extent of
7 what I recall.

8 Q Okay. What was the patient's name?

9 A I believe her last name was Gross.

10 Q Okay. The patient's name wasn't Linda Gross,

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11 was it?

12 A Yes, I believe it was.

13 Q And are you aware of whether or not that case
14 proceeded to trial?

15 A My understanding is that it did proceed to
16 trial.

17 Q And are you aware whether or not a verdict was
18 rendered in that case?

19 A I was made aware -- or I was told that a
20 Plaintiff's verdict was rendered.

21 Q Have you performed any transvaginal mesh
22 removal surgeries, Dr. Fiegen?

23 A Can I ask you to specifically designate that as
24 either pelvic organ prolapse mesh or midurethral --
25 or sling procedures?

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1 Q Sure. First, I'll ask you: Dr. Fiegen, have
2 you removed any transvaginal mesh products used to
3 treat stress urinary incontinence?

4 A Yes, I have.

5 Q Have you removed transvaginal mesh products
6 used to treat stress urinary incontinence
7 manufactured by Ethicon?

8 A Yes, I have.

9 Q And have you removed TTVT retropubic mesh
10 products from patients?

11 A No, I have not.

12 Q Have you removed TTVT obturator mesh products
13 from patients?

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14 A Yes, I have.

15 Q Have you also removed transvaginal mesh to
16 treat pelvic organ prolapse from patients?

17 A Yes, I have.

18 Q How many total removal surgeries have you
19 performed related to transvaginal mesh to treat
20 stress urinary incontinence?

21 A I've removed three.

22 Q How many removal surgeries of transvaginal mesh
23 products to treat pelvic organ prolapse have you
24 performed?

25 A Two.

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1 Q Of the three removal surgeries you have
2 performed related to transvaginal mesh to treat
3 stress urinary incontinence, how many of those
4 removal surgeries involved the TTV obturator
5 product?

6 A All three.

7 Q Okay. And the three removal surgeries of the
8 TTV obturator mesh you performed, did you implant
9 the TTV obturator mesh product in those patients?

10 A I implanted two of the three.

11 Q What were the two pelvic organ prolapse
12 transvaginal mesh products you removed from
13 patients?

14 A They were both transobturator mesh products.

15 Q And do you know the pelvic organ prolapse

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16 transvaginal mesh products that you removed from
17 patients?

18 A I'm sorry. I misunderstood your last question.

19 Q Let me go back and ask you again.

20 A All righty.

21 Q The two transvaginal mesh products for the
22 treatment of pelvic organ prolapse that you removed
23 from patients, are you aware of what company made
24 those products?

25 A Yes. Both of them were AMS products.

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1 Q Okay. And what were the names of those
2 products?

3 A I don't recall.

4 Q And did you implant those two AMS transvaginal
5 mesh products?

6 A Yes, I did.

7 Q The three removal surgeries that you performed
8 related to the TTV obturator mesh, why did you
9 perform those surgeries?

10 A All three of the patients were reporting pain,
11 and they first were treated medically with
12 anti-inflammatory medications, with mild narcotics.
13 And all three of them, prior to removal of their
14 mesh, were treated with trigger point injections
15 with Lidocaine, or Marcaine, and Triamcinolone.

16 Q Did you believe that removal of the TTV
17 obturator mesh from these patients would alleviate
18 the patient's pain?

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19 A That was our hope going into the surgery.
20 Q And had you made a determination in those three
21 patients' cases that the TTV obturator mesh was
22 causing these patients pain?
23 A No. The pain was -- seemed more related to,
24 again, a type of allergic-type response with both --
25 both of the patients that I had taken care of, and

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1 had placed the mesh, and, again, the surgical
2 intervention certainly can cause pain, can cause
3 dyspareunia for some patients, but it simply was
4 associated with the surgical intervention. I had no
5 reason to believe that the TTV itself was what was
6 causing her -- the patient's pain.

7 Q Doctor, do you hold the opinion that
8 transvaginal mesh cannot cause pain in a woman?

9 A I believe that any -- any vaginal surgery that
10 we do, any surgical intervention, no matter what it
11 is, can lead to pain for patients.

12 Q Fair to say that you hold the opinion that the
13 presence of transvaginal mesh inside of a patient's
14 body can cause that patient pain in some cases?

15 MR. KOOPMANN: Object to form.

16 THE WITNESS: Answer?

17 MR. KOOPMANN: Yeah.

18 A Sorry. Again, what I believe is that any
19 surgical intervention, in whatever area of the body,
20 and particularly as it relates to pelvic surgery,

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21 any surgery can cause pain for these patients.

22 Q (By Mr. Jones) Okay. And I'm not asking about
23 any surgery. I'm asking specifically about the
24 presence of mesh. So I'm going to ask you again.

25 Doctor, do you believe that the presence

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1 of transvaginal mesh inside of a woman's vagina can
2 cause that woman pain?

3 A Again, I have to reiterate, there are many
4 vaginal procedures that we do. Some of them can
5 cause persistent pain for patients, and all of them
6 can, and so I believe that that's the appropriate
7 answer in this circumstance.

8 Q Well, I'm not asking you about any surgeries.

9 Okay. So I want to get an answer to whether you
10 believe pain can be caused by the presence of mesh
11 inside of a woman's vagina. I am not asking about
12 any other surgery except for -- and I'm not actually
13 asking about surgery at all. So here's the
14 question. Let's see if I can get you to answer it.

15 Do you believe the presence of
16 transvaginal mesh, the mere presence of transvaginal
17 mesh inside of a patient's vagina, can cause that
18 patient pain?

19 MR. KOOPMANN: Object to form. You can answer.

20 A Patients that have any kind of pelvic surgery,
21 whether it's transvaginal mesh, whether it's an
22 anterior or a posterior repair, whether it's a
23 sacral colpopexy can have pain postoperatively.

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24 Typically pain is mediated by the presence
25 of prostaglandins that are released from tissue that

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1 is disrupted in the course of the procedure, and I
2 don't really know any other way to answer that.
3 It's the surgical intervention and the release of
4 prostaglandins and many other chemical mediators
5 that lead to pain.

6 Q (By Mr. Jones) Doctor, have you ever acted as a
7 consultant for any transvaginal mesh companies?

8 A I hope -- I will try to answer that correctly.
9 I did teach a single physician early on, I believe
10 it was 2004 or 2005, at the request of the Ethicon
11 company. I taught that physician how to place
12 retropubic midurethral slings.

13 Q Is that something that Ethicon asked you to do?

14 A The Ethicon representative in our area asked me
15 to do that.

16 Q Do you practice with a Dr. Benson?

17 A I do.

18 Q Do you know whether or not Dr. Benson has acted
19 as a consultant for any transvaginal mesh company?

20 A I don't know that for sure. I'm not aware of
21 any mesh-producing companies that Dr. Benson has
22 been directly involved with as their consultant.

23 Q Has Ethicon paid your expenses to travel to any
24 events?

25 A No, they have not.

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1 O Has Ethicon ever sponsored any marketing events
2 related to your practice?

3 A I'm not certain that I can answer that
4 correctly. My partner and I, three or four years
5 ago, had a public event that we talked about this
6 area of female medicine, and I cannot recall whether
7 or not Ethicon was a contributing sponsor to that
8 event. It was called Sisterhood something, and it
9 was a group that helped to coordinate the public --
10 or the public access to understanding this area of
11 medicine.

12 Q Has Ethicon ever assisted you in holding any
13 marketing events?

14 A Again, up until the last year or two, once a
15 year, during Bladder Awareness Month, we would have
16 a public engagement at one of our clinics. And,
17 actually, I cannot recall that Ethicon at any time
18 assisted in the sponsorship of that.

19 Q Have you attended any Ethicon training events?

20 A When I first learned -- when I was first
21 introduced to the retropubic sling in the year 2000,
22 I went to Cincinnati, and the Ethicon -- or the
23 physician that was training me was sponsored by
24 Ethicon.

25 Q Doctor, have you published any research related

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1 to transvaginal mesh products?

2 A No, I have not.

3 Q Doctor, have you ever performed any studies
4 related to transvaginal mesh products?

5 A No, I have not.

6 Q Doctor, do you keep a patient registry of the
7 patients that you have implanted transvaginal mesh
8 products in?

9 A No, we do not.

10 Q Doctor, have you performed any research
11 projects on transvaginal mesh devices?

12 A No, I have not.

13 Q Have you ever drafted Instructions For Use for
14 transvaginal mesh products?

15 A No. No, I have not.

16 Q Have you ever been asked by any company to help
17 draft Instructions For Use for any medical device?

18 A No. No, I have not.

19 Q Has Ethicon ever approached you to assist them
20 in providing expertise in product development?

21 A In the earliest days of my utilization of the
22 retropubic sling, the product representatives were
23 very involved and asked to be able to attend the
24 surgeries that we were doing. And if I recall, they
25 tried to be present for the first 50 surgeries. And

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1 after each surgery they would ask for my

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2 recommendations, asked for my impressions of how the
3 case went, asked me if I encountered any specific
4 problems, and asked whether or not I thought that
5 there would be an area that, if I could change, and
6 impact the continued development of their procedure
7 or their product, that they would -- they would be
8 happy to hear about that and be able to transfer
9 that information to their company representatives.

10 Q And did you offer any comments regarding
11 developments to the TVT retropubic device to Ethicon
12 sales representatives?

13 A Yes. You know, we talked about the trocars
14 that were being used, and we talked about the
15 tensioning of the midurethral sling and how that
16 could be most effectively established in a
17 tension-free manner, and how important it was to
18 have that completed before removing the covering of
19 the product, the sheath that was a part of the
20 product. Those were -- those were the areas that we
21 primarily discussed with these procedures.

22 Q What did you tell them about the trocars?

23 A I suggested that the trocars were possibly
24 larger than they needed to be. We had not had any
25 specific issues during all of those early cases when

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1 the majority of bladder injuries seemed to occur.
2 We were able to avoid that. And so I never did see
3 a trocar -- excuse me -- when we were using the
4 metal trocars in my patients. And, of course, part
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5 of my advantage was that we are not a teaching
6 facility and residents do not do our cases or
7 medical students. And so, again, it was always on
8 me as to whether or not there was going -- if there
9 was a complication, it was a complication that
10 either I had created or that was a part of the
11 process of placing a trocar blindly into the space
12 of Retzius, and ultimately removing.

13 Q Did Ethicon ultimately make any changes to the
14 size of the trocar in the TVT device?

15 A In the retropubic procedure, the now TVT Exact,
16 which is, again, a retropubic procedure, uses I
17 think polyethylene or some plastic polymer that is
18 probably about half the original diameter of the
19 metal trocars, and that's what they use now to pass
20 the TVT Exact. Again, a smaller trocar that is of
21 some polymer or plastic, something like that anyway.

22 Q And do you believe the change in making the
23 trocars smaller is an improvement to the TVT device?

24 A You know, I don't really know if it is an
25 improvement, if they're reporting fewer bladder

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1 injuries. And that's where that change would be
2 reflected, I would believe. I am not aware that
3 there have been any publications in the TVT Exact
4 literature that would suggest that they're seeing
5 fewer bladder perforations with this new trocar as
6 compared to earlier use.

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7 Q Do you currently use the TVT Exact?

8 A Yes, I do.

9 Q Do you currently use the TVT retropubic device?

10 A No, I haven't been. I don't believe our
11 hospital stocks that any longer.

12 Q Okay. When did you start exclusively using the
13 TVT Exact device?

14 A I would guess that it's been now probably about
15 two years.

16 Q Do you still use the TVT obturator device?

17 A Yes, I do.

18 Q Have you ever used the TVT Abbrevo?

19 A I have on two or three occasions.

20 Q Did you not like the TVT Abbrevo device?

21 A No. I liked it a great deal. We just were
22 unsuccessful convincing our hospital to stock that.

23 Q And did you make an effort to convince the
24 hospital in which you practice to purchase the TVT
25 Abbrevo device?

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1 A I did. They have forms that a physician can
2 fill out with their sense of whether or not this
3 product is any better or is going to be less
4 expensive. And I did fill out those forms but was
5 unsuccessful.

6 I was actually the only physician at our
7 institution that was interested in bringing that
8 product into the -- into the hospital.

9 Q And why did you make an effort to convince your
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10 hospital to purchase the TVT Abbrevio device?
11 A I just -- I felt very comfortable using it and
12 it seemed to work well. It was easy to tension.
13 And, again, I just -- I only had two or three
14 opportunities to really use it, and so really can't
15 form a very educated opinion based on either the
16 improvement or lack of difference between the other
17 obturator procedures.

18 Q Did you make an effort to convince your
19 hospital to purchase the TVT Exact device?

20 A No. That just simply appeared. And I'm not
21 sure if other physicians at our institution were
22 instrumental in bringing that on board. They must
23 have been, but I was not a part of that.

24 Q Have you used any other slings besides Ethicon
25 manufactured slings?

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1 A I've used autologous fascialata. I've used
2 cadaveric fascia, and I did use a Boston Scientific
3 Outside-In sling on one occasion.

4 Q Other than using a Boston Scientific sling on
5 one occasion, you have exclusively used Ethicon
6 products when implanting polypropylene mesh for the
7 treatment of stress urinary incontinence; correct?

8 A That would be correct.

9 Q When did you use fascial slings?

10 A I would guess that it's been -- it was in the
11 1990s that I was using fascialata.

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12 Q When you used those slings, did you consider
13 them to be safe?

14 A Yes.

15 Q When you used those slings, did you consider
16 them to be effective?

17 A At the time I did. Subsequent research has
18 shown them to be poorly durable and frequently fail.

19 The other issue that we identified with
20 the fascia lata slings was an increased frequency of
21 retention and de novo urgency.

22 Q And does the TVT Exact use laser cut mesh or
23 mechanical cut mesh?

24 A They use laser cut mesh.

25 Q Do the TVT obturator mesh products you

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1 currently use utilize laser cut mesh or mechanical
2 cut mesh?

3 A I believe we receive both of those products at
4 our hospital. Did I answer that correctly? The
5 TVT-0 uses both laser cut and mechanical cut mesh.

6 Q So fair to say that you currently implant both
7 mechanical cut mesh and laser cut mesh TVT obturator
8 devices?

9 A Yes.

10 Q Do you ever track, in your patients, whether
11 you used a laser cut mesh or mechanical cut mesh
12 when you implant a TVT obturator device?

13 A No. I have to admit I'm, frankly, never aware,
14 consciously, of whether or not the mesh that I've

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15 implanted is a mechanical cut mesh or a laser cut
16 mesh. I simply have seen no difference between the
17 two, and I never ask myself that question when I'm
18 at the point of implanting them.

19 Q Have you ever designed a medical device,
20 Doctor?

21 A I think -- can I ask you to be more specific
22 and give me a definition that's maybe a little
23 expanded regarding design? You know, I spoke --
24 I'll continue for just a minute. I spoke to the
25 fact that, in the course of initiating my

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1 utilization of the retropubic midurethral sling,
2 that we were in very close contact, with each
3 procedure, early on, with the Ethicon rep, and I'm
4 assuming his superiors and the people that were a
5 part of design. And so, to that extent, I believe
6 that I have been a part of and potentially
7 responsible for some of the design changes that may
8 have occurred, so if that answers your question.

9 Q Yes. Other than providing feedback to Ethicon
10 sales representatives about your early use of the
11 TVT retropubic device, is there anything that you
12 want to add related to your experience in designing
13 a medical device?

14 A No.

15 Q And do you hold any patents, Dr. Fielen?

16 A No, I do not.

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17 Q Now, going back to the feedback that you
18 provided to Ethicon sales representatives when you
19 first started using the TTVT retropubic device, we
20 talked already about the feedback you provided
21 related to making the trocars smaller. We haven't
22 yet talked about the feedback you provided about
23 tensioning the device. Can you tell me more about
24 the feedback you provided to Ethicon about
25 tensioning the TTVT retropubic mesh?

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1 A Well, early in the process, the Ethicon reps
2 were very useful in allowing us to spend time with
3 the mesh itself and stretching it, and basically
4 that was what we were doing when we would tension
5 this material. And so I realized very early in that
6 process that, without the sheath in place, that
7 attempts at tensioning the midurethral sling would
8 lead to stretching of the product, and that was what
9 we did not want to happen.

10 And so my suggestion to them was that for
11 physicians, who are early in their utilization of
12 this product, that they feel comfortable with the
13 tensioning that occurs before the sheath is removed,
14 and to not attempt to change the nature of that
15 tensioning once that has occurred, once the sheath
16 has been removed.

17 Q Once the sheath is removed from the TTVT
18 product, fair to say that you instructed Ethicon to
19 tell physicians not to further tension the mesh?

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20 A I did.
21 Q And the reason for not tensioning the mesh
22 after the sheath has been removed from the patient
23 is that the mesh would stretch. Is that fair?
24 A Yes, it does. And then immediately when doing
25 that we have now moved from a tension-free placement

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1 to the placement of mesh under tension.
2 Q After the TVT mesh is implanted inside the
3 patient's body, are there any forces or stress from
4 the body that are placed upon the mesh?
5 A Yes. Of course.
6 Q And can you explain that further?
7 A When a patient strains, bears down, goes from a
8 sitting to a standing position, all of those events,
9 coughing, laughing, increase abdominal pressure.
10 And that will transfer -- some of that pressure then
11 transfers to the midurethral sling. And that's why
12 the sling works so effectively. It remains
13 positioned properly, and it allows for a mechanical
14 obstruction of the urethra and allowing the patient
15 to remain dry.
16 Q Now, Doctor, you are a member of the
17 International Continence Society; correct?
18 A Correct.
19 Q Are you familiar with the transvaginal mesh
20 complication classification system published by the
21 International Continence Society?

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22 A I haven't seen that recently, I have to admit.
23 Q Have you reviewed medical journal articles
24 related to transvaginal mesh for the treatment of
25 stress urinary incontinence that have associated the

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1 use of mesh with urinary retention?
2 A Yes. Yes, I have.
3 Q Have you reviewed medical journal articles
4 related to transvaginal mesh for the treatment of
5 SUI that have associated the use of mesh with
6 chronic vaginal pain?
7 A I've read in some literature, there have
8 been -- there's been that suggestion. Of course,
9 that occurs very, very infrequently and at very low
10 rates.
11 Q And have you reviewed medical journal articles
12 related to transvaginal mesh for the treatment of
13 SUI that have associated mesh with chronic
14 dyspareunia in women?
15 A Again, basically the same answer. Many of the
16 literature articles have addressed that issue, but
17 it occurs so very infrequently that some of them
18 simply do not, because, again, the reported
19 incidence of dyspareunia is approximately .2 percent
20 of all of these cases.
21 Q Have you reviewed medical journal articles that
22 have found that the TVT mesh can migrate inside of a
23 patient after it's placed?
24 A I've read articles that have questioned whether

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25 or not the TVT will migrate, and the overwhelming

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1 majority of these articles have shown no evidence of
2 migration. And those articles that have been done
3 with ultrasound evaluation, again, can objectify
4 those findings very effectively for us.

5 Q Have you reviewed medical journal articles that
6 have discussed transvaginal mesh for the treatment
7 of SUI shrinking or contracting inside of a
8 patient's body?

9 A Yes. I've read some of those articles. Most
10 of them, I think. And, again, the overwhelming
11 majority of the well-done articles show no evidence
12 of shrinkage.

13 And to continue in answering that
14 question, what has been clearly identified is in the
15 wound-healing process that is so very important with
16 the placement of this mesh, that the infiltration of
17 the sling, which is easily accomplished because of
18 its large pore size, the infiltration of the sling
19 with fibrotic material, macro fascias, collagen
20 vessels, all have, as a part of the normal process
21 of infiltration, and with myofibrils, the fibrotic
22 capsule is the element that begins to contract. And
23 that's a normal part of wound-healing, the
24 contraction of the wound. And that is the only --
25 the only element that can lead to a change in that

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1 way.

2 Q And you have reviewed medical articles that
3 have concluded that transvaginal mesh for the
4 treatment of SUI contracts or shrinks inside of a
5 patient's body after it's placed; correct?

6 A I've reviewed articles that have looked at that
7 issue. None of which have shown that to be the
8 case.

9 Q Okay. You have reviewed medical journal
10 articles that have concluded that transvaginal mesh
11 for SUI can curl or rope inside of a patient's body
12 after it is placed; correct?

13 A I have.

14 Q And you have reviewed medical journal articles
15 that have concluded transvaginal mesh for SUI can
16 fray or deform inside of a patient's body after it's
17 been placed; correct?

18 A I've read articles on that. Again, I believe
19 the majority of the data that we have and the
20 clinical data that we have shows no reason to
21 believe that that -- if that does occur, and the
22 determination of that has to occur with removal of
23 the mesh.

24 Now, removal of the mesh in and of itself
25 will create curling, will create separation.

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1 Fraying, I think, is the term that you had used.
2 Just the mechanical separation of that mesh from the
3 body will create those events. And so to be certain
4 that that has occurred preoperatively, I believe, is
5 to -- to not exaggerate, but I think is a stretch.

6 Q When you removed the three TVT obturator mesh
7 products from patients, did you examine the mesh
8 after you removed it?

9 A Yes.

10 Q Did you examine the mesh under a microscope?

11 A No, I did not.

12 Q So you just performed a gross examination of
13 the removed mesh; correct?

14 A Correct.

15 Q And did you -- I assume that you felt the mesh
16 when you removed it from the patient?

17 A Yes. Of course.

18 Q Okay. Can you explain to the jury, based upon
19 your gross examination, as well, in your experience
20 of feeling the mesh after it's removed from the
21 patient, what the mesh feels like?

22 A Well, the mesh feels like the mesh that we
23 implanted when all of the fibrotic material has been
24 removed, but it looks just terrible because we
25 create so much tension and so much pressure on the

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1 -- in the removal of the prolene mesh that it is
2 distorted terribly at the time of removal.

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3 Q Doctor, once the TTV obturator mesh is
4 implanted inside of a patient's body, is it possible
5 to ever fully remove the mesh?

6 A I'm sure that it's possible. It's rather
7 difficult to get around the inferior pubic ramus and
8 remove the mesh that extends from the groin to that
9 point.

10 Q And once the TTV retropubic mesh is placed
11 inside of a patient's body, is it possible to remove
12 the entirety of the mesh?

13 A It is possible.

14 Q And have you ever done that yourself?

15 A No. I've never had to remove a retropubic
16 sling.

17 Q We talked about removal surgeries. Have you
18 ever performed any mesh revision surgeries where you
19 have released tension on the tape?

20 A Yes, we have.

21 Q And are those in addition to the removal
22 surgeries --

23 A Correct.

24 Q -- that we talked about earlier?

25 A Yes. That is correct.

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1 Q So we've got removal surgeries. We've got
2 revision surgeries where you've released tension on
3 the tape.

4 Have you performed any other mesh revision
5 surgeries other than the two that we've already

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6 tal ked about?

7 A I have removed areas of erosion and exposure of
8 transvagi nal mesh.

9 Q So you've performed mesh revisi on surgeri es
10 where you have released tensi on on the sling;
11 correct?

12 A Correct.

13 Q You have performed mesh revisi on surgeri es
14 where you have revised an exposure or erosion of the
15 mesh; correct?

16 A Yes. That's correct.

17 Q And you have performed mesh revisi on surgeri es
18 where you have removed parts of the transvagi nal
19 mesh from a patient's body; correct?

20 A Correct.

21 Q Any other mesh revisi on related surgeri es I'm
22 leavi ng out?

23 A No. I don't think so.

24 Q Okay. How many times have you performed a mesh
25 removal surgery where you have revised an exposed or

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1 eroded transvagi nal mesh?

2 A I would have to guess. I don't keep an
3 accurate number or total, but my guess is somewhere
4 between 10 and 12 exposures that I've removed.

5 Q Have those involved Ethicon transvagi nal mesh
6 products?

7 A The products that I had placed that led to

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8 erosion, and, I believe, if I'm correct, there were
9 three or four of those. The others that were sent
10 to me, I have to admit I'm not certain whether or
11 not those were Ethicon, or AMS, or Boston Scientific
12 slings. The exposure typically is quite clearly
13 identified, and the area to be excised, again, is
14 very clear.

15 Q In the three or four mesh revision surgeries,
16 do you recall whether those were TVT products or
17 not?

18 A Yes. They all were.

19 Q Okay. In those three or four TVT removal or
20 revision surgeries involving exposure of the mesh,
21 did you make a determination of what the cause of
22 the exposed mesh was?

23 A In one patient it was very clear. It was her
24 hypo-estrogenic state that led to the exposure of
25 just very small filaments of mesh that were felt at

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1 the time of intercourse. She was having no pain and
2 no discomfort. She chose not to use vaginal
3 estrogen, and we simply went ahead and removed that
4 small segment of mesh that had -- that had migrated
5 through the atrophic vaginal tissue that now
6 existed.

7 The other patients that I had done -- I'm
8 trying to think back now on their exact clinical
9 circumstances, and I believe one of them was
10 menopausal and the other two were premenopausal.

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11 These were just typically -- my sense was
12 that they were simply separations of the vaginal
13 mucosa that overlay the mesh product, and that they
14 had simply separated, and the reasons for that were
15 unclear to me.

16 Q In the first patient you described, had her
17 partner felt the mesh during sexual intercourse?

18 A He had.

19 Q Fair to say that one unique risk of using
20 transvaginal mesh for the treatment of SUI is a
21 woman's sexual partner feeling the mesh during
22 sexual intercourse?

23 A I would say that if the mesh erodes through the
24 vaginal mucosa, that's a likely probability.

25 Q And is that a risk unique to the use of

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1 pol ypropylene mesh for the treatment of SUI?

2 A Are you asking me is dyspareunia unique to --

3 Q No. I'm asking you what we just talked about,
4 where a woman's partner can feel mesh during sexual
5 intercourse. Is that a risk unique to using
6 pol ypropylene mesh to treat stress urinary
7 incontinence?

8 A I don't know if it's unique or not. That the
9 material is, as you know, a permanent pol ypropylene
10 mesh, and we all know that erosions, exposures can
11 occur, but I couldn't say whether it was unique to
12 this product.

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13 Q Okay. How many times have you performed a mesh
14 revision surgery related to releasing tension on the
15 mesh?

16 A Again, I have to -- I have to use my best
17 guess. But for my patients, and patients referred
18 to me over the last 17 years, I believe I probably
19 have released as many as 15 slings for patients who
20 were having elevated post-void residuals or urinary
21 retention.

22 Q And how many of those 15 were patients in which
23 you had implanted a TVT mesh product?

24 A I would guess, again, that a third to maybe a
25 half of that group were patients of my own.

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1 Q And of your own patients who you performed a
2 mesh revision surgery in which you released tension
3 on the TVT mesh, why was there excessive tension on
4 those patients' mesh?

5 A I'm sure the reason was that I -- I placed the
6 sling too tightly.

7 Q Will you be offering any opinion that Ethicon
8 met industry standards for a medical device company
9 in this litigation?

10 MR. KOOPMANN: Object to form. Go ahead.

11 A Isn't that what we're doing right now?

12 Q (By Mr. Jones) Well, what are the industry
13 standards that you're opining that Ethicon met in
14 this litigation related to -- we'll first start with
15 the design of the TVT and TVT obturator mesh.

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16 A I have to say that I'm not aware of any
17 industry standards that existed before this --
18 before this product was ever brought to market.

19 Q Did Ethicon ever test the TVT retropubic device
20 prior to launching the TVT retropubic device?

21 MR. KOOPMANN: Object to form. Go ahead.

22 A Yes. I believe Dr. Ulmsten had published their
23 results in about -- I think about '96, and then
24 again in '98. And, to my knowledge, the product had
25 been released in Europe at that time, but was not

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1 released in the United States until -- and you can
2 correct me if I'm wrong -- in 1999 I believe it was
3 released by Johnson & Johnson in the United States.

4 Q And Dr. Ulmsten is the inventor of the TVT;
5 correct?

6 A Yes. Among other colleagues of his.

7 Q And I want to be precise here. Did the
8 company, Ethicon, ever test the TVT prior to it
9 being launched by the company?

10 A I believe that they allowed Dr. Ulmsten to do
11 the clinical research on this product before --
12 again, before they purchased the product. And,
13 ultimately, as you know, there have been more than
14 2,000 investigations and articles that have been
15 published that look specifically at the clinical
16 results of using this product.

17 Q Doctor, how long did you spend writing your

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18 report?

19 A Well, I have my hours in front of me. And the
20 majority of those hours, when I first started, I
21 believe the very first date that we started was
22 December 7th of last year. And of the 23 and a half
23 hours that I spent in this effort with Mr. Koopmann
24 and on my own, my guess would be somewhere between
25 18 to 20 hours were spent on preparing this.

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1 Q And did you prepare your reliance list?

2 A No. No, I did not. Let's see, I want to make
3 sure that I understand. The list of medical
4 literature that we included?

5 Q Correct.

6 A No. I did not provide -- I did not create
7 that.

8 Q Was it important to you in forming your
9 opinions in this litigation to review internal
10 Ethicon company documents?

11 A You know, initially I must say I hadn't really
12 considered that. But Mr. Koopmann made it possible
13 for -- or made me -- or I should rephrase that.

14 Mr. Koopmann made available to me those
15 documents and indicated to me the importance of my
16 familiarization with those. And, again, I then
17 began to read through the company documents that I
18 did have.

19 Q And fair to say then that your review of
20 internal Ethicon company documents was important in

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21 forming your opinions in this case?

22 MR. KOOPMANN: Object to form.

23 A The most important thing, to me, in forming my
24 opinions for today is related to my clinical
25 experience as a surgeon and using this product for

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1 more than 17 years, as an early adopter of the TVT-0
2 in 2004, and my review of the voluminous amount of
3 clinical data and medical literature that is a part
4 of this product.

5 Now, that doesn't mean that I wasn't
6 interested in reviewing documents from the company.
7 My sense was that when I look at a memorandum or an
8 e-mail, that internal communication that existed for
9 the majority of the information that came from
10 Ethicon, was of interest and was valuable, in some
11 circumstances, but was not of the same level of
12 importance that all of the level one data and the
13 clinical sense that I have had and the clinical
14 experience that I have had in forming my opinion.

15 Q (By Mr. Jones) Did you review internal Ethicon
16 company documents that discussed fraying of the TVT
17 mesh?

18 A I did.

19 Q Did you review internal Ethicon company
20 documents that, quote, refer to the TTV mesh as a
21 bad quality mesh?

22 A Yes. I believe I read a single report. I

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23 can't remember who the author was of that, but I did
24 read that.
25 Q Did you review internal -- an internal Ethicon

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1 company document that referred to the TVT mesh as,
2 quote, the weak point of the TVT?
3 A If I did, it's not coming back to me
4 immediately. I may have, but I do not recall that
5 specifically.
6 Q Did you review an internal Ethicon company
7 document that discussed a 30 to 50 percent shrinkage
8 rule of thumb for the TVT mesh?
9 A Yes. I did see that report.
10 Q Did you review an internal Ethicon company
11 document that discussed that during the TVT surgical
12 procedure the TVT mesh would elongate up to
13 50 percent?
14 A I read that. Again, what I truly have to go on
15 is my clinical experience, which does not
16 corroborate that suggestion.
17 Q Did you review an Ethicon internal company
18 document where other physicians in your field
19 reported to Ethicon that the TVT mechanical cut mesh
20 had similar properties as a Scotch-Brite pad?
21 MR. KOOPMANN: Object to form.
22 A Again, if I did see that report, it's not
23 coming back to me right now. I don't recall. You
24 said Scotch pad?
25 Q (By Mr. Jones) Yes. Scotch-Brite pad.

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1 A I don't know what that is.
2 Q Do you know what a brillo pad is?
3 A Yes, I do.
4 Q Do you recall reviewing an internal document
5 where physicians in your field reported to Ethicon,
6 after examining the TVT mechanical cut mesh, that
7 the TVT mechanical cut mesh had similar properties
8 to a brillo pad or Scotch-Brite pad?
9 A Yes, I do recall that now. Yes, I do.
10 Q Do you recall reviewing an Ethicon internal
11 document that referred to the TVT mesh as old
12 construction hernia mesh?
13 A Yes, I do. Again, I'm not sure that I
14 understood the implication. I have not used hernia
15 mesh myself, and I'm not certain about the
16 distinction between pore size and weight of hernia
17 mesh relative to, and in comparison to, the surgical
18 mesh that's used for midurethral slings.
19 Q All right. Let's do some housekeeping issues
20 here, Doctor. I'm going to mark for the record
21 Exhibit 1 which is the Notice to take your
22 deposition here today.
23 MR. KOOPMANN: The court reporter will do that
24 now, Nate.
25 MR. JONES: Thank you.

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1 THE WITNESS: Nate, do you mind if I take a
2 break for a bathroom break here while they're doing
3 this?

4 MR. JONES: Go ahead. Let's take a bathroom
5 break.

6 (Deposition Exhibit No. 1 marked for
7 identification.)

8 (Recess taken from 9:38 a.m. to 9:52 a.m.)

9 Q (By Mr. Jones) Doctor, are you ready to proceed
10 after a short break?

11 A Yes. Thank you.

12 Q Is it commonly known among physicians in your
13 field that patients can experience an allergic
14 reaction to the prolene mesh used in the TTV
15 products?

16 A I can't say that it is. I haven't spoken
17 specifically with very many other
18 physicians/urogynecologists that talk about this. I
19 think it's such an uncommon occurrence that, again,
20 it doesn't come up as a topic of conversation. I
21 have never seen any published research that looks at
22 this issue. We have talked to allergists and
23 dermatologists about methods that we might use to
24 make that determination. And -- but, again, it's
25 not a topic that is frequently discussed. I have to

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1 say.

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2 Q Are you familiar with what a FMEA or Failure
3 Modes Effect Analysis is?

4 A I believe I am.

5 Q Do you know the company that Dr. Ulmsten worked
6 with to originally manufacture the TVT device?

7 A I know the name starts with "M." I'm trying to
8 remember, but I've read, again, that he had a parent
9 company that he utilized and that he developed as a
10 part of his development efforts and marketing for
11 the TVT.

12 Q Are you familiar with the amount of money
13 Ethicon has paid Dr. Ulmsten to market the TVT
14 device?

15 A I am.

16 Q And how much did Ethicon pay Dr. Ulmsten to
17 market the TVT device?

18 A Well, I believe that there was an initial
19 payment of \$250,000 or 200,000. That was followed
20 by a \$400,000 investment by Ethicon, I believe, when
21 he released his initial findings and his first
22 report. And, if I'm not mistaken, I believe there
23 was one additional \$400,000 investment by Ethicon at
24 the point of time when they were ready to begin the
25 marketing process.

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1 Q And are those payments that you just described
2 all the payments that you're aware of?

3 A I believe so. Something like -- well, no. I'm

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4 sorry. I just saw -- I believe that there was a
5 total of close to \$25 million ultimately paid to
6 Dr. Ulmsten and whoever else that was a part of his
7 organization.

8 Q Okay. Doctor, we've marked as Exhibit 1, prior
9 to the break, the Deposition Notice. Have you seen
10 Exhibit 1 before?

11 A No, I have not.

12 MR. KOOPMANN: Well, have you seen the
13 document --

14 Q (By Mr. Jones) Did you bring with you any
15 materials to the deposition today?

16 A I did.

17 Q What did you bring with you?

18 A Well, I brought -- if you can hang on for just
19 a second. I brought, of course, my report and all
20 of the articles that I used in formation of that.
21 The remainder of the articles and literature, one
22 that I received are TVT literature, medical
23 literature of other materials, a TVT binder number 2
24 and 1, and SUI literature binder 1 and 2. I brought
25 thumb drives that had been provided for me, and I

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1 brought CDs of talks that I've given regarding
2 stress urinary incontinence, and urinary urgency,
3 and those issues primarily.

4 Q Let's mark for the record the thumb drives or
5 thumb drive as Exhibit 2. Let's mark for the record
6 the CDs that you brought as Exhibit 3.

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7 MR. KOOPMANN: Nate, you can do it however you
8 want, but I just want you to know, since it's, you
9 know, maybe a little confusing since you're not
10 looking at what we're looking at. Dr. Fiegen has
11 one thumb drive that contains everything he's been
12 sent. Then there's other thumb drives that will
13 contain that same material but maybe spread out
14 between multiple thumb drives. So you can mark them
15 all if you want, but I just want you to be aware
16 that that is the way it's been done. So if you want
17 mark one, you can just mark that one. If you want
18 to mark them all, you can do that, too.

19 MR. JONES: Let's go ahead and just mark them
20 all as Exhibit 2.

21 (Deposition Exhibit No. 2 marked for
22 identification.)

23 MR. JONES: And, Barry, is there a password for
24 those thumb drives?

25 MR. KOOPMANN: Yes. There is a black thumb

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1 drive in the envelope, and the password is written
2 on the outside of the envelope, "Mesh2016!"
3 MR. JONES: Thank you. And then the CDs that
4 Dr. Fiegen has brought with him today can we mark as
5 Exhibit 3?

6 (Deposition Exhibit No. 3 marked for
7 identification.)

8 MR. JONES: And then let's mark as Exhibit 4

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9 Dr. Fi egen's expert report.

10 (Deposition Exhibit No. 4 marked for

11 identification.)

12 THE WITNESS: Nate, I also have my hours spent
13 and compensation provided for January and February.
14 It dates back to December 7th, and then all the way
15 through January are altogether on one list, and then
16 all of February on a separate list.

17 MR. JONES: Let's mark that as Exhibit 5.

18 Thank you, Doctor.

19 (Deposition Exhibit No. 5 marked for

20 identification.)

21 THE WITNESS: And, Nate, I have an Attachment A
22 that's a consultant invoice between myself and
23 Ethon.

24 MR. JONES: Okay. Let's mark that as
25 Exhibit 6.

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1 (Deposition Exhibit No. 6 marked for

2 identification.)

3 MR. KOOPMANN: That's just another copy of the
4 Notice --

5 THE WITNESS: Okay.

6 MR. KOOPMANN: -- and correspondence.

7 THE WITNESS: This is -- oh. And, Nate, the
8 last element -- last item is correspondence between
9 Mr. Koopmann and myself.

10 MR. KOOPMANN: Well --

11 THE WITNESS: I'm sorry?

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12 MR. KOOPMANN: That's not me.

13 THE WITNESS: Oh, okay.

14 MR. KOOPMANN: Nate, he's brought along the
15 correspondence that he's received that's responsive
16 to the Notice from various people to him providing
17 materials.

18 MR. JONES: Let's mark the correspondence as

19 Exhibit 7.

20 (Deposition Exhibit No. 7 marked for
21 identification.)

22 Q (By Mr. Jones) All right. Doctor, I want to go
23 through Exhibit 4, which is the report that you
24 issued in this litigation for the TTV and TTV
25 obturator product. Okay?

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1 A Yes. That's fine.

2 Q Are there any changes or modifications at this
3 time to your report?

4 A No, there is not.

5 Q I want to start on page 1 of your report in the
6 "Background" section. Second paragraph that starts
7 with, "During the early years of my practice, I
8 became very involved in the development of minimally
9 invasive surgery and ultimately began teaching other
10 physicians, with a very good and pioneering group of
11 physicians from all over the U.S., the newest
12 surgical techniques in surgery."

13 What surgical techniques are you referring

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14 to when you wrote that?

15 A What we're referring to or what I'm referring
16 to is the use of minimally invasive surgery or
17 laparoscopic surgery to treat issues such as ovarian
18 cysts, acute appendices, pelvic adhesions, removal
19 of organs, uterus, cervix, tubes and ovaries, and
20 ultimately we developed a laparoscopic procedure for
21 the Burch procedure.

22 Q Tell me more about the laparoscopic Burch
23 procedure.

24 A The approach that we took was to use an extra
25 peritoneal entry into the space of Retzius. After

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1 our dissection of the areolar tissue that was around
2 the area of the ureterovesical junction, we then
3 utilized prolene mesh, attached that either by
4 surgical tacks or suture to the area immediately
5 adjacent to the ureterovesical junction and
6 extending down to approximately the midurethra.

7 The opposing end of that prolene mesh was
8 then sutured to Cooper's ligament, and so we had a
9 banding effect that was broader, and, we felt,
10 stronger than placement of two separate sutures as
11 is a part of the originally described tanagho
12 modification of the Burch procedure.

13 Q The procedure in which you just described, do
14 you still currently perform that procedure?

15 A No, I do not.

16 Q Do you perform the Burch procedure with use of
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17 sutures currently?

18 A No, I do not.

19 Q Doctor, are you a fellowship-trained
20 urogyneologist?

21 A No. Fellowships actually didn't exist at the
22 time that I finished my residency. That's sort of,
23 yeah, where I am at. They just did not exist.
24 There was one fellowship under Dr. Ostergard, and
25 when I left my residency training, Peter San had

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1 secured that spot.

2 Q Doctor, are you familiar with the Urinary
3 Incontinence Treatment Network?

4 A Yes. I've heard of them.

5 Q Now, if we move forward to page 5 of your
6 report, and I'm going to read from the very last
7 sentence on page 5 --

8 A All right.

9 Q -- of your report. Where you write, "It is
10 frequently performed in combination with other
11 vaginal surgery for pelvic organ prolapse."

12 You're referring to the MMK procedure in
13 that sentence; correct?

14 A No, I'm not. I'm referring to the anterior
15 colporrhaphy.

16 Q Is the TVT commonly performed in combination
17 with other vaginal surgery for pelvic organ
18 prolapse?

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19 A Yes, it is.

20 Q If we move forward to page 6 of your report.

21 A Okay.

22 Q And I'm going to focus in on the last paragraph
23 where you write, "The pores are 1,379 microns and
24 the mesh weighs 100 grams per meter squared."

25 Are you referring to the mesh used in the

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1 TVT products?

2 A Yes, I am.

3 Q And you cite -- you have a parenthetical behind
4 that sentence where you cite to an article by Pam
5 Moalli.

6 Are you relying on the article that -- in
7 2008, by Pam Moalli, titled "Tensile Properties of
8 Five Commonly Used Midurethral Slings Relative to
9 the TVT" for support that the pore size of the TVT
10 mesh is 1,379 microns?

11 A Yes, we are.

12 Q And are you relying on that article for the
13 fact that mesh used in the TVT products weighs
14 100 grams per meter squared?

15 A Yes. I believe that and other articles.

16 Q Is the mesh that is used in the TVT products
17 and weighs 100 grams per meter squared classified as
18 a heavy weight mesh in your opinion?

19 A No, it is not. It remains a lightweight mesh
20 and macroporous.

21 Q Are you aware of any transvaginal mesh products

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22 for the treatment of SUI which weighs less than

23 100 grams per meter squared?

24 A Yes, I am.

25 Q Okay. And what are those products?

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1 A The two that come to mind are Ultrapro and
2 Vypro mesh.

3 Q Okay. Fair to say that it's your opinion that
4 the TTV is the gold standard for treatment of SUI;
5 correct?

6 A Yes. I think it's been reported that way in
7 numerous literature articles written.

8 Q Do you have an opinion as to when the TTV
9 became the gold standard for treatment of SUI?

10 A No. Obviously I could speculate, but I don't
11 remember when the very first article describing this
12 as our new gold standard was released.

13 Q Now, on page 7 of your report you talk about
14 the Ward/Hilton randomized controlled trial
15 comparing TTV to the Burch procedure; correct?

16 A I'm actually looking for that. Is that in the
17 last paragraph -- okay. Yes. Okay.

18 Q All right. And you're aware that Drs. Ward and
19 Hilton published two-year results and five-year
20 results of that study; correct?

21 A Correct.

22 Q And at two years they found the objective cure
23 rate for TTV patients to be 66 percent; correct?

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24 A Correct.

25 Q And at five years they reported that the

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1 objective cure rate of 66 percent in TTV patients
2 declined; correct?

3 A What I read from my report is that at five-year
4 follow-up they found there was no difference between
5 TTV and colposuspension in terms of cure rates.

6 Q Okay. I'm just going to ask you the question
7 again. I understand what you wrote down there in
8 the report, but I'm asking specifically about the
9 objective cure rates that Drs. Ward and Hilton
10 reported at five years which you cite to in your
11 report on page 8.

12 Drs. Ward and Hilton, in their five-year
13 follow-up, reported that the objective cure rate of
14 66 percent in TTV patients declined; correct?

15 MR. KOOPMANN: Why don't you pull out this
16 article if he's going to ask questions about it.

17 A I'm just familiarizing or reminding myself of
18 the results of this article, if that's okay.

19 Q (By Mr. Jones) Yeah. That's fine.

20 A I'm going to have to go to the table, again, to
21 -- at five years it appears that there were 98
22 patients that remained in the TTV group that they
23 had access to. And at five years there were 46
24 patients in the Burch procedure that they saw, and
25 there was no statistically significant difference

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1 between those two at five years.

2 Q Okay. Back to the question. Do you remember
3 the question I asked you?

4 A Yes. You were asking me whether or not the
5 one-year data versus the five-year data showed a
6 reduction in the -- in the cure rates, objective
7 cure rates between TTVT and Burch procedure. Is that
8 correct?

9 Q No. That's not what I asked you. Let me ask
10 you the question again.

11 A All right.

12 Q And I'm just asking about the objective cure
13 rate for TTVT of 66 percent, which you quote, based
14 on the Ward/Hilton two-year follow-up study in your
15 report; correct?

16 A Correct.

17 Q Okay. Here's the question: Drs. Ward and
18 Hilton report at their five-year follow-up the
19 objective cure rate of 66 percent in TTVT patients
20 declined; correct?

21 A I have to admit, Nate, I'm still not finding
22 the specific notation. I'll go to the conclusion
23 here and see if I can pick that up quickly for you.

24 I'm sorry, Nate, I am not finding within
25 this article a suggestion that the rate of objective

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1 continence decreased at five years.

2 Q What did Drs. Ward and Hilton report the
3 objective cure rate of TVT in their five-year
4 follow-up as?

5 A I'm trying to find that in this article. You
6 know, Nate, the only thing that I'm finding is that
7 they're reporting that with colposuspension there
8 was an increased incidence of enterocel e formation,
9 and that's all I'm seeing. It says, in one
10 paragraph on the last -- second to the last page,
11 "Of women who attended for follow-up, subjective and
12 objective cure rates are maintained at the same
13 level as previously reported at six months and two
14 years. This is compatible with published evidence
15 from case series of long-term cure rates for
16 colposuspension and seven-year results for TVT."

17 Q Have you reviewed any internal Ethicon company
18 documents?

19 A Yes, I have.

20 Q That discuss correspondence between Dr. Hilton
21 and Ethicon about this particular RCT?

22 A I don't recall that I have.

23 Q Okay. And are you aware that Ethicon sponsored
24 this RCT?

25 A I'm sure I would see that if I had the article

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1 back.

2 THE WITNESS: Barry, that was this one?
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3 MR. KOOPMANN: 70.

4 A Yes, I see that that's the case.

5 Q (By Mr. Jones) Now, if we move on to the next
6 paragraph that starts with, "The device has been
7 studied in many long-term studies, even out to 17
8 years after surgery," which is on page 8. You cite
9 to a study by Carl Nilsson titled, "17 Years
10 Follow-up of Tension-Free Vaginal Tape Procedure for
11 Female Stress Urinary Incontinence."

12 A Yes.

13 Q Correct?

14 A Correct.

15 Q And are you aware that Carl Nilsson has acted
16 as a consultant for Ethicon?

17 A No, I'm not aware of that.

18 Q Okay. Now, I want to skip down to the heading
19 titled "Plaintiffs' Experts' Contentions" on the
20 bottom of page 16.

21 A Okay.

22 Q And, first, it's actually on the next page
23 under the title "Cytotoxicity and Foreign Body
24 Reaction."

25 A Yes.

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1 Q And you discuss an in vitro test Ethicon
2 conducted which showed evidence of causing cell --
3 or Ethicon -- showed Ethicon conducted an in vitro
4 test which showed evidence of toxicity; correct?

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5 MR. KOOPMANN: Object to form. Go ahead.

6 A Yes. Cell lysis and toxicity is the way it was
7 presented from Ethicon.

8 Q (By Mr. Jones) Okay. And you are aware of
9 in vitro testing which Ethicon ran on the mesh used
10 in the TVT products which showed evidence of causing
11 cell lysis or toxicity in vitro; correct?

12 A Yes. I'm aware of that publication.

13 Q And do you recall when that testing was
14 performed?

15 A I do not.

16 Q And if we skip to the next section titled
17 "Shrinkage/Contracture." The first sentence says,
18 "The TVT and TVT-0 slings do not shrink or
19 contract."

20 Is that an opinion you hold in this
21 litigation?

22 A Yes, it is.

23 Q Do you agree that after the TVT mesh is placed
24 inside of a patient's body that scar tissue can form
25 around the mesh and contract down on the mesh?

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1 A I would agree that scar tissue will form around
2 the midurethral sling. To the degree that it may
3 contract, I don't know that anyone can categorically
4 or objectively show evidence that they are able to
5 measure that event. These are small cellular
6 myofibrils that can cause scar contraction. And
7 when that occurs, it's -- again, it's such minute

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8 contractility that they are able to apply, that I'm
9 not sure that it can be effectively measured.

10 Q And then if we skip down to the bottom of 18
11 under the title "Degradation," and underneath that
12 title which continues at the top of page 19, you
13 discussed plaintiffs' contentions that polypropylene
14 degrades inside of the human body. Fair?

15 A Say that again, please.

16 Q Sure. On page 19 you discussed plaintiffs'
17 contentions that polypropylene degrades inside of
18 the human body. Fair?

19 A Yes.

20 Q Okay. And in the first paragraph on page 19
21 you talk about an article by Drs. de Tayrac and
22 Vincent Letouzey; correct?

23 A Correct.

24 Q Are you aware that Dr. de Tayrac has acted as a
25 consultant for Ethicon?

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1 A No, I'm not aware of that.

2 Q And are you aware that Dr. de Tayrac has had a
3 journal article retracted based upon his
4 misrepresentations concerning that journal article?

5 MR. KOOPMANN: Object to form.

6 A No, I was not aware of that.

7 MR. KOOPMANN: Are you saying based on this
8 journal article?

9 MR. JONES: I think you know what journal

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10 article I'm talking about, Barry.

11 Q (By Mr. Jones) Now, on page 20 under the
12 section, "Ropping, Curling, Fraying, and Particle
13 Loss," you write, "If the TTV and TTV-0 meshes are
14 implanted according to the IFU and Ethicon's
15 training materials, roping, curling, and fraying is
16 not an issue."

17 Did I read that correctly?

18 A Yes, you did.

19 Q Is fraying of the TTV mesh inherent in the
20 design of the TTV mesh?

21 A No, I don't believe so. Fraying can occur, but
22 it's not a part of the design of this mesh.

23 Q And then you continue on, "The peer-reviewed
24 published medical literature regarding the slings
25 does not discuss these issues."

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1 And when you write that sentence, "these
2 issues," you're referring to the TTV and TTV-0 mesh
3 is roping, curling, and fraying; correct?

4 A Yes.

5 Q Are you aware of any peer-reviewed published
6 medical literature regarding slings that discusses
7 roping, curling, and fraying of the TTV and TTV-0
8 meshes?

9 A I'm sorry. If it does exist, I'm not familiar
10 with it.

11 Q And then at the bottom of page 20, underneath
12 the section titled "Weight and Pore Size," second

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13 paragraph, second sentence, you're referring to the
14 mesh used in TVT and TVT-0, and you write, "The
15 pores are so large that one can see through them."

16 Did I read that correctly?

17 A Yes. Yes. That's what I'm referring to.

18 Q And are you communicating in that sentence that
19 when you actually hold up the mesh used in the TVT
20 products that you yourself can see through the holes
21 in the mesh?

22 A You can see light transmitted through very
23 easily. I can't read a newspaper, I don't think,
24 but I can see light transferred, absolutely.

25 Q Okay. So when you write that sentence, you're

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1 referring to -- you're not referring to your gross
2 examination of the mesh just holding it in your
3 hands. Fair?

4 A You said I'm not referring to the gross
5 examination?

6 Q Correct.

7 A No. I am referring to the gross examination of
8 the mesh. When I hold it in my hands and hold it
9 up, you can see light through it.

10 Q Okay. And then if you -- further down, now
11 we're on page 21, second paragraph, "Larger-pore,
12 lighter-weight meshes like Ultrapro have been
13 developed, but did not prove to be feasible in
14 Ethicon's testing."

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15 A Yes.

16 Q Did I read that correctly?

17 A Yes.

18 Q Are you aware that Ethicon applied to the FDA
19 for clearance for the use of Ultrapro in a TTV
20 obturator sling?

21 MR. KOOPMANN: Object to form. Go ahead.

22 A I'm -- I'm not aware of that.

23 Q (By Mr. Jones) Okay. So you haven't seen the
24 application Ethicon filed with the FDA to gain
25 clearance for the use of the larger-pore,

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1 Lighter-weight mesh, Ultrapro, in the TTV obturator
2 application?

3 MR. KOOPMANN: Object to form. Go ahead.

4 A I have not seen that.

5 Q (By Mr. Jones) And then further down that
6 paragraph you discuss an article by Okulu titled
7 "Use of Three Types of Synthetic Mesh Material in
8 Sling Surgery, a Prospective Randomized Clinical
9 Trial Evaluating the Effectiveness and
10 Complications," published in 2013.

11 Are you aware of when the enrollment
12 period was for the study done by Okulu on prolene
13 soft mesh, Ultrapro mesh, and Vypore mesh for the
14 treatment of SUI?

15 A I believe I -- I believe I am. The enrollment
16 period was between --

17 Q Would you go ahead and take it out?

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18 A Yeah. The enrollment period was between 2005
19 and 2007.

20 Q Fair to say that prolene soft mesh, Ultrapro
21 mesh, and Vipro mesh were available to physicians
22 for the treatment of SUI in 2005?

23 A I would not -- I wouldn't know that, Nate. I
24 have no idea if it was available or was not
25 available. It appears that it was in Turkey.

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1 Q Is it commonly known among physicians that the
2 TVT obturator mesh would be extremely -- would be
3 extremely difficult to fully remove from a patient's
4 body?

5 A You know, I have not had those discussions with
6 other physicians. There is no question that due to
7 the anatomical issues associated with that, that
8 removal of 100 percent of the mesh would be more
9 difficult with the transobturator procedure than
10 with the retropubic procedure.

11 Q And I know I've asked you this -- the
12 commonly-known question a couple of times and you've
13 kind of had the same response, about, hey, look, I'm
14 not -- it would be difficult for me to know because
15 I would have to talk to, you know, a bunch of
16 physicians. I think that's what you're saying.

17 But is it fair that in order for you to
18 render an opinion of what risks were commonly known
19 among physicians in your field, you would need to do

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20 some research and survey physicians in your field?

21 MR. KOOPMANN: Object to form.

22 A For me to know what each physician finds
23 difficult surgically, again, would simply require
24 conversation and discussion.

25 Q (By Mr. Jones) Now, back up on page 21, the top

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1 of page 21 of your report. You talk about the Amid
2 or Amid classification of Type 1 meshes; correct?

3 A Yes. Correct.

4 Q And you're aware that that classification is
5 for mesh used in abdominal wall hernia surgery;
6 correct?

7 A Yes, I'm -- I'm aware of that.

8 Q Doctor, do you know who Richard Isenberg is?

9 A I'm sure I should. I'm trying to recall if he
10 was one of the Ethicon researchers. I can't recall,
11 honestly.

12 Q Okay. Do you know who Dr. Martin Weissberg is?

13 A Again, I believe that I read his name in an
14 Ethicon draft or report.

15 Q Do you know who Dr. Pete Hannula is?

16 A Pete? What was his last name, did you say?

17 Q Hannula?

18 MR. KOOPMANN: Hannula.

19 A No, I'm afraid I don't.

20 Q (By Mr. Jones) Do you know who Dan Smith is?

21 A Well, I know a Dan Smith, but I'm --

22 Q I was going to say, in relation to this
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23 Litigation do you know who Dan Smith is?

24 A I don't recall.

25 Q Okay. Do you know who Laura Angelini is?

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1 A Gee. No, I don't recall.

2 Q Do you know who Jean Kammerer, K-A-M-M-E-R-E-R,
3 is in relationship to this litigation?

4 A No, I do not.

5 Q All right. Doctor, I want to ask you a
6 question about testimony from an Ethicon medical
7 director that was presented at trial for the TVT
8 obturator product. And he was asked,
9 hypothetically, if the company knew the TVT device
10 was associated with chronic pain, chronic
11 debilitating pain, is that something you believe
12 should have been included in the IFU. And he
13 answered, "If the company knew that, yes."

14 Do you agree with the testimony given by
15 an Ethicon medical director that if Ethicon knew
16 that the TVT devices were associated with chronic
17 pain, that Ethicon should have included that in the
18 TVT IFUs?

19 MR. KOOPMANN: Object to form.

20 A To begin with, the product does not cause
21 chronic pain, and so, therefore, I don't know why
22 they would be compelled to report on that.

23 Q (By Mr. Jones) Okay. Assume under my
24 hypothetical that the TVT devices do cause chronic

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25 pain. And assume that Ethicon knew that the TVT

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1 devices could cause chronic pain. Should Ethicon
2 then have warned of chronic pain in the TVT IFU?
3 A You know, I'm not quite sure, Nate, exactly why
4 we would play this hypothetical game. It does not
5 cause chronic pain and there's no point to
6 soliciting suggestions about a hypothetical.

7 Q Yeah, there is a point to it. I know it might
8 seem a little gamey, but it's my opportunity to ask
9 questions about your opinion specifically about what
10 should have been in the IFU. And so, in this
11 hypothetical, you're going to assume that Ethicon
12 knew that the TVT device could cause chronic pain in
13 women. And under that situation, would Ethicon then
14 be required to include chronic pain in the TVT IFUs;
15 yes or no?

16 MR. KOOPMANN: Object to form.

17 A If we -- if we assume and make this giant leap
18 to suggest that chronic pain was understood by
19 Ethicon, and did know, there is obviously -- it
20 would be reasonable for them to be accountable
21 for -- to provide that information to physicians if
22 it was not an occurrence that was known by them.

23 Q (By Mr. Jones) Is it your opinion that
24 Ethicon -- well, let me ask it this way:

25 Do you believe that Ethicon should not

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1 avoid warning about risks associated with a product
2 just because Ethicon assumes that doctors know about
3 that risk already?

4 MR. KOOPMANN: Object to form. Go ahead.

5 A That degree of redundancy makes no sense to me.
6 Every physician, every surgeon has an extended
7 discussion with their patients. They're given
8 materials regarding whatever surgical intervention
9 is being suggested to them, and each patient will
10 sign a very detailed consent form that spells out
11 all of those things.

12 I don't see the need for specific
13 redundancy on the part of Ethicon. If they report
14 to us in the way that I -- in the way that I
15 suggested, you know, providing us with an
16 understanding, if there is something that is not
17 understood, if we do not know of an issue that is
18 likely to develop, then it's their responsibility to
19 provide that information for us.

20 But, otherwise, they don't need to tell
21 patients that there's a risk of infection. There's
22 a risk of pain following procedure. There's a risk
23 of failure. There's a risk of voiding dysfunction.
24 Those are all issues that are addressed by the
25 physicians or his or her representative. And,

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1 again, I don't see the need for redundancy in that
2 circumstance.

3 Q (By Mr. Jones) Does Ethicon need to tell
4 doctors that the TVT obturator mesh is extremely
5 difficult, if not impossible, to fully remove from
6 the patient's body?

7 MR. KOOPMANN: Object to form. Go ahead.

8 A No. They don't need to tell physicians that.
9 If the physicians are uncertain about that, they can
10 make that inquiry. But I don't believe that any
11 physician that performs this procedure, the
12 transobturator procedure, would have any uncertainty
13 about the technical difficulties of removing this
14 material.

15 Q (By Mr. Jones) All right. Now, I'm going to
16 review some testimony from an Ethicon medical
17 director that was presented at trial in a TVT-0 case
18 and ask you if you agree with his testimony.

19 An Ethicon medical director testified that
20 all complications known to the company that relate
21 to the device should be included in the device
22 Instructions For -- the device Instructions For Use.
23 Do you agree?

24 MR. KOOPMANN: Object to form.

25 A I believe that, again, any -- any issue that is

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1 reasonably associated with that -- with that product
2 or with that placement of that product, that is not
3 clearly understood by the physicians using this
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4 product, needs to be identified.

5 Otherwise, frankly, they don't have to do
6 the physician's work for them. It's the physician's
7 responsibility to make patients clearly aware of all
8 of the potential issues which may arise. And to
9 simply have it on a sheet or an IFU means very
10 little to most patients, and half of them are likely
11 not to read it. And so the discussion needs to
12 occur between physician and patient. And, again, my
13 sense is that that -- that level of redundancy is of
14 no particular use.

15 Q (By Mr. Jones) Can you name one risk of the TTV
16 devices that is not -- and I'm going to use your
17 words here -- can you name one risk of the TTV
18 devices that is not clearly understood by physicians
19 that Ethicon needs to include in the TTV IFUs?

20 A I'm not aware of any.

21 Q Is it your opinion that Ethicon should include
22 in the TTV IFUs the risk of the TTV mesh becoming
23 exposed in a patient?

24 A Yes. That's relatively unique to this product
25 or other products of its like that we've used, and I

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1 do think that that's appropriate to warn physicians
2 about.

3 Q Are there any other risks besides exposure of
4 the mesh that Ethicon should include in the TTV
5 Instructions For Use?

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6 A My understanding -- my reading of the IFU
7 suggests that they have covered virtually
8 everything. And that, again, my -- my feeling is
9 that this is an important step in this process for
10 patients, and, that is, their level of understanding
11 that can only be achieved through discussion and
12 questioning with their physician. And, again, I
13 don't believe that there's anything within the IFU
14 right now that is lacking or leaves physicians in a
15 position of vulnerability or patients.

16 Q And what are the risks, besides exposure of the
17 TVT mesh, that Ethicon should include in the TVT
18 IFUs?

19 A I believe they have included everything that I
20 would feel is important. And, again, if all they
21 were reporting was that exposure or erosion of this
22 material can occur transvaginally, and that there is
23 a certain percentage of likelihood of that. If they
24 wanted to put that in, that would be adequate, I
25 think.

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1 Again, this is a surgical procedure.
2 Physicians are aware of the issues associated with
3 the surgical procedure, and it's their
4 responsibility to make patients aware of that.
5 Q When you said earlier that you feel that
6 Ethicon has included all of the risks associated
7 with the TVT devices in the product IFU that you
8 believe they should have, are you referring to the
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9 2015 TVT IFUs?

10 MR. KOOPMANN: Object to form.

11 A No. I'm referring to the original IFU.

12 Q (By Mr. Jones) Do you know why Ethicon changed
13 the Instructions For Use, specifically the warning
14 statements in the 2015 TVT IFUs?

15 A No, I don't -- I don't know. Obviously, I
16 could speculate, but that would be inappropriate. I
17 do not know what conversations occurred within the
18 company, within the senior advisers or their
19 scientists that caused them to move forward with a
20 publication that, in my opinion, again, is
21 particularly redundant.

22 Q And you haven't read any deposition testimony
23 that has discussed why Ethicon made the change to
24 the 2015 TVT IFUs?

25 A No, I have not.

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1 Q Have you ever been asked by any regulatory
2 agency to review the adequacy of Instructions For
3 Use for a medical device?

4 A No, I have not.

5 Q And outside of your work related to your report
6 that you have issued in this litigation, has any
7 medical device company ever asked you to review the
8 adequacy of their Instructions For Use for a
9 product?

10 A No, they have not.

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11 Q And we talked earlier today about the feedback
12 that you provided to Ethicon in your early use of
13 the TVT retropubic device that involved comments
14 that you gave to Ethicon about the trocars and the
15 tensioning of the mesh.

16 Did Ethicon ever ask you to provide any
17 feedback about the Instructions For Use,
18 specifically what risks were included in the
19 Instructions For Use related to the TVT line of
20 products outside of this report that you've issued?
21 A No. I was never asked about that or asked for
22 a recommendation, suggestion, anything specific to
23 their IFU.
24 Q And outside of your work on this case -- well,
25 let me ask it this way:

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1 Outside of your work on this case, Doctor,
2 do you routinely review the Code of Federal
3 Regulations on what is to be required in a medical
4 device Instruction For Use?
5 A No, I typically do not.
6 Q Okay. And I'll ask it broader. I think I
7 already know the answer. And I'm not trying to play
8 games here. But in your clinical practice, as a
9 physician, do you routinely refer to FDA device
10 labeling guidance documents?
11 A I am uncertain about what you're referring to,
12 Nate. But, you know, when we begin using a new
13 medical device, again, we are in direct contact with

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14 the medical -- the representative who's presenting
15 this as a new, improved, or completely different
16 product than we have had access to. Again, and they
17 leave volumes of information with those of us who
18 may potentially use that. And I can't recall very
19 specifically or directly that that material was
20 consciously reviewed or not reviewed. I just -- I
21 don't recall.

22 Q So you don't have any recollection of a -- and
23 when you're talking about representatives from the
24 company, you're talking about Ethicon's sales
25 representatives, for example; correct?

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1 A Or representatives from any device company.
2 Q Okay. And you're talking about sales
3 representatives from any medical device company;
4 correct?
5 A Correct. And, typically, when we're
6 introducing a new product, there's more than just
7 the sales representative. There are company
8 representatives that are also a part of that.
9 Q And those are company representatives from the
10 marketing department; correct?
11 A Or from the research and development
12 department.
13 Q As you sit here today, can you name one
14 representative from Ethicon from their research and
15 development department?

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16 A No, I cannot.

17 Q Doctor, are you aware of a long-term randomized
18 controlled trial with the primary end point of pain
19 on the TVT products?

20 A I am.

21 Q Was the primary end point obtained on the TVT
22 obturator product?

23 A Yes, I am.

24 Q Are you aware of a long-term randomized
25 controlled trial with a primary end point of

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1 dyspareunia on the TVT obturator product?

2 A No. I don't recall that as a primary end
3 point.

4 Q Are you aware of a long-term randomized
5 controlled trial with the primary end point of
6 dyspareunia on the TVT retropubic device?

7 A No. I'm not aware of a specific article that
8 used that as a primary end point or primary goal of
9 determination.

10 Q Have you ever reviewed any studies comparing
11 TVT laser cut mesh with TVT mechanical cut mesh --

12 A Yes, we have.

13 Q -- published in peer-reviewed medical
14 literature?

15 A Yes.

16 Q And what study would that be?

17 A I'll have to look back. I cannot find the
18 articles that speak specifically to that. And as I
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19 reconsider, Nate, I may have misspoke. I'm not
20 positive that I have read an article that discusses
21 specifically the differences between laser and
22 mechanically cut mesh. I'd like to amend my first
23 suggestion.

24 Q Okay. Are you familiar with a product used to
25 treat stress urinary incontinence named Repliform?

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1 A Yes. I can't recall precisely what that is.
2 The name is quite familiar. If I remember
3 correctly, it was a different type of material used
4 in the same fashion as the midurethral slings.

5 Again, I'm trying to remember exactly
6 whether or not that's the case, and so maybe I'm
7 asking the question this time. I believe that it
8 was a biological product that was used as a
9 transvaginal sling.

10 Q I think you know your stuff. All right. I'll
11 continue on.

12 A What? I don't -- I didn't get that.

13 Q I said it sounds like you know your stuff.
14 I'll continue on.

15 A Oh, thanks.

16 Q It was a compliment.

17 A I thought he was saying to get stuffed.

18 Q All right. Doctor, I'll shift gears here now
19 and ask you about some of your past interactions
20 with Ethicon over the years based on our research

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21 into Ethicon's internal documents.

22 First, I want to ask you about, have you
23 attended AUGS meetings?

24 A Yes, I have.

25 Q Have you attended AUGS annual convention?

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1 A Yes.

2 Q And at those conventions and meetings, do you
3 interact with representatives from medical device
4 companies?

5 A Yes, we do.

6 Q Do you interact with representatives from
7 Ethicon at AUGS conventions and meetings?

8 A Yes, we do.

9 Q And have you had interactions with Ethicon
10 representatives at what are commonly referred to as
11 medical device booths at these conventions?

12 A Yes. That's typically the site where that
13 engagement can occur.

14 Q Okay. Have you ever had dinner with Ethicon
15 representatives that have occurred during the time
16 in which an AUGS convention was held?

17 A Yes, I believe I have.

18 Q Okay. And, Doctor, do you recall sometime in
19 2003 being an Ethicon preceptor for the TVT device?

20 A If you say that it was 2003, I did precept one
21 physician that I can recall somewhere in that time
22 frame.

23 Q Doctor, are you familiar with the group AAGL?

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24 A Yes, I am.

25 Q And what is AAGL?

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1 A American Association of Gynecologic
2 Laparoscopists.

3 Q And have you attended AAGL meetings and
4 conventions?

5 A Yes. Yes, I have. Particularly early in the
6 years when I was teaching around the country with a
7 number of AAGL members and people that were a part
8 of this group that I had the privilege of working
9 with and teaching with. During those early years of
10 the '90s and up to 2000 I was a very active member
11 of that group.

12 Q Okay. And did you interact with Ethicon
13 representatives at AAGL conventions?

14 A You know, I would guess that I probably did.
15 It's been long enough ago that I don't remember any
16 specific interactions. If you're referring to any
17 dinners or anything, I do believe that there was one
18 evening in Orlando, and I can't even remember if
19 this was Ethicon or if it was some other medical
20 device company, but, yeah, we were taken to dinner
21 one night while I was in Orlando. And, again, I
22 cannot recall if it was the Ethicon company or not.

23 Q Doctor, did you ever do any presentations
24 regarding the ProLift+M product?

25 A No, I never have.

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1 O Did you ever use the ProLift+M product?

2 A No, I did not.

3 Q Did you ever use the ProLift product?

4 A Yes, I did.

5 Q It sounds like you have used the Ethicon TVT
6 Abbrevo product on two or three occasions; correct?

7 A Correct.

8 Q You have used the TVT retropubic Ethicon
9 product up until two or three years ago; correct?

10 A Correct.

11 Q You currently use the TVT Exact Ethicon
12 product; correct?

13 A Correct.

14 Q You currently use and have used extensively the
15 TVT obturator Ethicon product; correct?

16 A Correct.

17 Q You have used Ethicon's ProLift product;
18 correct?

19 A Yes.

20 Q How many times did you use the ProLift mesh
21 product?

22 A Again, this takes me back a little ways, but I
23 would guess somewhere in the range of 10 to 12,
24 maybe 13 times.

25 Q Why did you stop using the ProLift mesh?

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1 A Well, I guess it was as much because of certain
2 patient's selection that I would choose to do native
3 tissue repairs, and then as we began to get closer
4 and closer, in 2008, to the FDA's initial warning to
5 physicians, I guess I just simply chose to
6 completely back away from that until the smoke had
7 cleared, until it became obvious through studies
8 which followed, interestingly, that did show a true
9 advantage of an augmented repair in the anterior
10 compartment, but it took a while after that for this
11 information to become clear.

12 It became clear that biologics had no
13 advantage over native tissue repairs, and it became
14 clear that the posterior compartment was not -- the
15 recurrence rate within the posterior compartment was
16 no different after an augmented repair versus a
17 native tissue repair.

18 Q When did you start using the ProLift mesh
19 product, Doctor?

20 A I'm trying -- it was about 2006, maybe near the
21 end of 2006, beginning of 2007, and then into 2008.

22 Q And after 2008 you never used the ProLift mesh
23 product again; correct?

24 A No. No. And I'm trying to remember when the
25 company introduced the Prolene M, but it was

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1 clear -- it was near that time when that product was

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2 introduced as a replacement for the ProLift, the
3 original ProLift, but I just simply never again got
4 on board after that.

5 Q Did Ethicon approach you or did you approach
6 them about you first starting to use the ProLift
7 mesh product?

8 A The Ethicon representatives approached me, and
9 they had -- because I was doing the majority of the
10 midurethral slings that were an Ethicon product,
11 they invited me to a course that they put on in
12 Omaha, Nebraska, to introduce me to this. And I
13 went to that course, I looked at the procedure. I
14 knew Dr. Kevin Benson, who, at that time was in
15 Watertown and doing this procedure. I engaged him.

16 I attended the surgeries -- some of the
17 surgeries that he had done, and then subsequently
18 Dr. Benson joined me in Sioux Falls, and as partners
19 we interacted in that way. But, yeah, again, that
20 was -- my introduction came through the Ethicon
21 representatives and an introduction in the Omaha
22 area at one of the hospitals there, and then
23 ultimately continuing that with my partner and
24 current partner.

25 Q And I know you answered this already but just

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1 to be clear, you never used the ProLift+M mesh
2 product; correct?

3 A No, I never did.

4 Q Did you ever use the TVT Secur product?

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5 A I'm guessing probably two or three times.
6 Q Why did you not use the TTV Secur mesh product
7 more than two or three times?
8 A I just simply did not like it. And part of the
9 issue was related to the integral theory that
10 Ulmsten and Petros had provided for us, and that
11 made it easy to understand why we were shifting to a
12 midurethral sling that was not fixed in position. I
13 simply did not like the fact that the Secur was
14 fixed in position.

15 I had no issues with it in any other way,
16 but I just did not want to, again, violate that
17 theory that had been so useful for us and that had
18 created such a successful product.

19 Q And when you talk about -- when you talk about
20 a fixed system, you're talking about the anchoring
21 mechanism --

22 A Correct.

23 Q -- that is used with some transvaginal mesh
24 products that fix the mesh when it's placed by
25 anchoring -- by using different sort of anchoring

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1 mechanisms; correct?
2 A Yes. That's what I'm referring to. The
3 anchoring effect of the TTV Secur.
4 Q And based on your review of the Ulmsten series
5 and his technique, the revolutionary aspect of the
6 TTV product was that there was no anchoring

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7 mechanism required; correct?

8 A That was simply part of the theory. And the
9 remainder of the integral theory talks about the
10 different mechanisms that are -- that are occurring
11 throughout the urethra and particularly at the
12 mid-urethra. And so the movement of the sling's
13 position from the urethrovesical junction to the
14 mid-urethra and a lack of -- a lack of fixation of
15 this material made it possible for this to all
16 develop as it did.

17 As you know, Dr. Ulmsten was using many
18 other products in this development. And the
19 majority of those products that he was using were
20 fixed in position. And they saw very high erosion
21 rates, in the 14, 15 percent range. And they
22 progressively and ultimately came to use the
23 polypropylene mesh and became aware of the fact that
24 they just did not have to anchor this mesh. And
25 that started this entire process that has, again,

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1 brought us to a point where now we can call the
2 midurethral sling the gold standard of female
3 anti-incontinence procedures.

4 Q And the reason for an anchoring mechanism, or
5 at least the thought was, the need for an anchoring
6 mechanism was to hold the mesh in place once it was
7 implanted inside the body; correct?

8 A That's correct.

9 Q Okay. And because of the high degree of

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10 friction between the mesh and the patient's tissues,
11 the prolene mesh used in the TTV does not need an
12 anchoring mechanism; correct?

13 A The TTV is very adherent. I don't agree that
14 there's such a great degree of friction, otherwise
15 we'd see significantly more erosions, both into the
16 bladder, urethra, and through the vagina. It's just
17 -- it's much more adherent.

18 Q And when Ulmsten wrote one of his papers in
19 1996, he specifically used the words "high degree of
20 friction."

21 A He did -- I didn't --

22 Q Do you remember that?

23 A No, I don't remember that.

24 Q And when Ethicon dispersed clinical sales aids
25 to physicians regarding the TTV, they claimed there

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1 was a high degree of friction?

2 MR. KOOPMANN: Object to form.

3 Q (By Mr. Jones) Do you remember that?

4 A No, I do not. You know, Nate, I'm just kind of
5 wondering if we're dealing with just semantic
6 differences that can make this sound more
7 problematic or not. You know, when you place a --
8 this prolene mesh against a subcutaneous area of
9 tissue, it adheres very effectively. And that
10 happens when you simply lay that on that
11 subcutaneous tissue and it just becomes adherent.

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12 Again, there may be a certain degree of
13 movement of the sling after it has been placed and
14 tensioned, but very little. And so I don't quite
15 understand your need to refer to this as friction or
16 clinging to that suggestion. It may have been,
17 semantically, the term used by Ulmsten and a few
18 others, but there's very little friction that is
19 created in this situation.

20 Q Well, they're not my words. They're the
21 inventor of the TVT's words in a peer-reviewed
22 published medical journal article.

23 A I understand.

24 Q Where he said "A high degree of friction." So
25 it's not something I'm making up, Doctor. I'm just

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1 reading from the article.

2 A No. I understand. I understand. What I'm
3 suggesting is that there is so little movement with
4 this product, after it's been placed, that the idea
5 of this being frictional or creating issues because
6 there's friction here, I think, was something that
7 they probably misspoke about because there's very
8 little movement of this product once it's been in
9 place because it becomes adherent to that
10 subcutaneous tissue.

11 Q Well, I'm about ready to move on, but just one
12 final question. Do you think that -- and if we
13 want, I can show you the article. It might save
14 time not to.

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15 But do you think that when Dr. Ulmsten
16 described there being a high degree of friction with
17 the polypropylene mesh, used in the TTV device, that
18 he misspoke when he used the term "high degree of
19 friction"?

20 A You know, I couldn't -- couldn't say, Nate.
21 You know, it's speculative probably on both of our
22 parts, and maybe what Dr. Ulmsten was suggesting was
23 that with significant degrees of movement of that
24 material through tissue that there appeared to be a
25 greater degree of friction, but, believe me, I'm

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1 suggesting to you that it's adherence and it's not
2 friction that's occurring.

3 Frictional occurrences are the result of
4 the rubbing of two objects together that creates
5 heat and sometimes change in whatever the materials
6 are that are in direct contact with one another.

7 That just does not occur with the midurethral sling.

8 Q All right. Have you heard the term "Velcro
9 effect" in relationship to the TTV products?

10 A I've heard the term.

11 Q And what does the term "Velcro effect" mean to
12 you in relationship with the TTV products?

13 A It means adherence to the subcutaneous tissue.

14 Q Let's go ahead and get that Ulmsten article out
15 and I promise then we'll move on from this friction
16 talk, but I just want to get the article marked as

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17 an exhibit. And I think we're at Exhibit 8. And if
18 we could go ahead and mark the 1996 original article
19 titled, "An Ambulatory Surgical Procedure Under
20 Local Anesthesia for Treatment of Female Urinary
21 Incontinence," by U. Ulmsten, and with the Bates
22 number at the bottom right of the first page of
23 Eth. Mesh 04558832.

24 (Deposition Exhibit No. 8 marked for
25 identification.)

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1 Q (By Mr. Jones) Thank you. Doctor, do you have
2 Exhibit 8 in front of you?
3 A I do.
4 Q Okay. If you could turn -- you've seen this
5 article before, haven't you?
6 A Yes, I have.
7 Q If you could turn to page 4 of 6 underneath the
8 "Discussion" section.
9 A Yes.
10 Q And we're going to focus on the second
11 paragraph underneath the "Discussion" section about
12 three sentences down that starts with "In fact."
13 A Okay.
14 Q And Dr. Ulmsten writes in this article, "In
15 fact, it was found that due to a high degree of
16 friction the prolene sling was difficult to move as
17 soon as the surrounding plastic sheath had been
18 removed."
19 Did I read that correctly?

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20 A Yes.

21 Q And do you agree with that sentence by
22 Dr. Ulmsten or disagree?

23 A No. I agree that movement of the sling of any
24 appreciable distance after -- after the sheath has
25 been removed is difficult because the sling adheres

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1 as much as it does, and, again, with movement
2 through the tissue, obviously there will be a
3 resistance or a frictional effect.

4 Q Okay. Doctor, do you recall giving any
5 discussions in 2011 to Ethicon representatives at
6 Sanford Medical Center in Sioux Falls in January of
7 2011 specifically?

8 A Do I remember -- what kind of interaction are
9 you referring to?

10 Q Dr. Michael Fiegen to discuss his extensive use
11 of TVT-O and limited use of TVT Abbrevo at Sanford
12 Medical Center January 11, 2011, with Ethicon
13 representatives.

14 A If that occurred, I believe you. I can't
15 remember it, though.

16 Q Okay. All right. I want to mark as Exhibit 9
17 an article titled "Evaluation and Management of
18 Mirethral Sling Complications" from April 18th,
19 2016.

20 (Deposition Exhibit No. 9 marked for
21 identification.)

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22 Q (By Mr. Jones) Doctor, have you seen this
23 article before?
24 A Yes, I have.
25 Q Do you know who the authors -- are you familiar

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1 with any of these authors?
2 A I know Roger Dmochowski and I know Melissa
3 Kauffman who is in his department.
4 Q They're both at Vanderbilt University; correct?
5 A Correct.
6 Q And how do you know Roger?
7 A I've known him for quite some time. He's an
8 active member of AUGS and ICS, and I see him at
9 conferences primarily.
10 Q Okay.
11 A And Melissa has been to our -- to our office in
12 Sioux Falls. We're a part of a Cook -- stem cell
13 study, and Melissa is very involved at one of the
14 higher levels in that study that's being sponsored
15 by Cook.
16 Q I want to ask you more about that later once we
17 get through this article. On page 2 of 9, the first
18 full paragraph that starts with "Nonetheless."
19 Are you with me?

20 A Yes, I am.
21 Q Okay. "Nonetheless, certain complications from
22 midurethral sling surgery are unique to the use of
23 polypropylene mesh. These can include mesh
24 exposure, chronic pelvic pain, and dyspareunia,

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25 which are the most common, as well as mesh

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1 contracture, organ perforations, or neuromuscular
2 injuries."

3 Do you agree or disagree with that
4 statement?

5 A Well, I agree that any -- any sling, whether
6 it's autologous fascia, fascialata, cadaveric
7 fascia, any of these procedures can lead to any of
8 these occurrences. I don't think this is -- I would
9 disagree that this is unique to polypropylene mesh.

10 Q Okay. That's what I was getting at.

11 A Okay.

12 Q So you disagree with that statement; correct?

13 A I do.

14 Q Okay. Doctor, do you know who Chris Jones, an
15 Ethicon employee, do you remember Chris Jones?

16 A No, I'm afraid I don't.

17 Q I want to mark as Exhibit 10 the United States
18 patent by Jean de Leval dated November 3rd, 2009.

19 A All righty.

20 (Deposition Exhibit No. 10 marked for
21 identification.)

22 Q (By Mr. Jones) All right. Doctor, do you know
23 who Jean de Leval is?

24 A Yes. I believe he's the developer of the
25 Outside-In or Inside-Out. I can't remember which

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1 one it was. I think the Inside-Out transobturator
2 sling.

3 Q And that's the TVT obturator sling; correct?

4 A Yes.

5 Q Okay. And you've reviewed medical articles by
6 Dr. de Leval; correct?

7 A Yes.

8 Q And you've reviewed internal company documents
9 where Dr. de Leval has had discussions with Ethicon
10 about the TVT obturator device; correct?

11 A I believe I have.

12 Q Okay. And you see that this is a United States
13 patent with a date of November 3rd, 2009; correct?

14 A Correct.

15 Q And it says, "Surgical procedure for the
16 treatment of female urinary incontinence,
17 tension-free inside-out transobturator urethral
18 suspension." Correct?

19 A Yes.

20 Q And it lists the inventor as Jean de Leval;
21 correct?

22 A Correct.

23 Q Does this appear to be a patent related to the
24 TVT obturator product?

25 MR. KOOPMANN: Object to form. Foundation. Go

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1 ahead.

2 A I've not seen a patent document prior to this,
3 and so I'm not sure that I'm in a position to be
4 able to answer that question.

5 Q (By Mr. Jones) Okay. Let's just cut to the
6 chase. Skip to page 17 of 23, and it doesn't look
7 like there's page numbers on it so I can't help you
8 out other than to say it's page 17 of 23 of the
9 document.

10 And at the top it says, "Surgical
11 procedure for the treatment of female urinary
12 incontinence tension-free inside-out transobturator
13 urethral suspension."

14 A I see that.

15 Q Okay. And then there's a section titled "Field
16 of the Invention." Correct?

17 A Yes.

18 Q And then below that there's a section titled
19 "Background of the Invention." Correct?

20 A Yes.

21 Q Okay. In reading underneath the "Background of
22 the Invention" section, about three sentences down,
23 starting with, "The use of retropubic TVT."

24 Are you with me?

25 A Yes.

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1 Q "The use of retropubic TVT has been associated
2 with various and relatively frequent per- and

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3 post-operative complications, including bladder
4 perforation, temporary or persistent retention,
5 pain, urinary infection, and de novo urgency. Other
6 rare but severe and possibly underestimated
7 complications have been reported with this
8 approach."

9 Did I read that correctly?

10 A Yes.

11 Q Do you agree with that statement that I just
12 read?

13 A What I agree with within that statement is that
14 complications can arise with the TVT, but they're
15 very infrequent and uncommon, unlike their
16 suggestion.

17 Q Well, let me ask you if you agree with this
18 statement in this patent for the "Surgical procedure
19 for the treatment of female urinary incontinence
20 tension-free inside-out transobturator urethral
21 suspension."

22 "The use of retropubic TVT has been
23 associated with various and relatively frequent per-
24 and post-operative complications."

25 Do you agree with that statement?

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1 A No. No. We do not. You know, again, there
2 are very few issues associated with the midurethral
3 sling, whether transobturator or retropubic, and so
4 I would disagree.

5 This is an effort to get this patent. And
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6 so, to do that, you have to establish uniqueness
7 and -- I forget what all the other elements that are
8 associated with requirements to achieve patent
9 success, but uniqueness is certainly one of them.
10 And utility, I think, is one of the others. And
11 what they're trying to suggest here is that the
12 transobturator sling should replace the terrible and
13 harmful retropubic sling, and this is -- this is
14 just a word game, in my opinion, because that is an
15 incorrect statement.

16 Q Do you agree that some complications associated
17 with the TVT are underestimated in the medical
18 literature?

19 A Well, I can't speak to that. I wouldn't know
20 if they were underestimated. I know that is
21 contended by many of your experts that it's terribly
22 under-related, but, you know, the FDA and Ethicon
23 have done just about everything they can to try to
24 maintain effective accountability of complications;
25 the AUGS Society, SUFU, ICS, IUGA, all of those

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1 societies have tried to participate effectively in
2 the proper and frequent accountability and
3 accounting of specific issues.

4 Some of them go even as far as to report
5 patients who have had urinary tract infections as a
6 complication of this issue. But, again, these
7 societies have done everything they can, as well as

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8 Ethicon and our FDA, to try to make as clear as we
9 possibly can, to all of us physicians who are using
10 this product, what the true risks are for our
11 patients.

12 We have countless -- more than 2,000 good,
13 published studies that are helping us understand.
14 And, again, you can -- you can throw, you know,
15 stones at these articles and say they just don't
16 pick up all the patients that may have had issues.
17 And, possibly, that's true. But, overwhelmingly,
18 they're so consistent with one another that I can't
19 believe that that is a significant part of what
20 we're missing now.

21 So, again, that's a long way to answer a
22 simple question, but I think it's necessary to -- to
23 make it clear that there is significant
24 accountability in this area.

25 Q Doctor, you talked about the FDA reviewing

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1 reports of complications associated with
2 transvaginal mesh. Have you reported to the FDA any
3 complications potentially related to transvaginal
4 mesh?
5 A No. Typically our complications are reported
6 through the Ethicon system, and I assume that
7 there's sharing of information.

8 Q The TVT-O removal surgery that you talked about
9 earlier today, did you report those to Ethicon?

10 A Yes. The representatives became aware of that.

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11 All of our sling revisions for patients who have
12 urinary retention, all of our exposures that are
13 done, all of those patients are reported to the
14 Ethicon representatives and to the Ethicon office.

15 Q And you report those directly to your Ethicon
16 sales representatives; correct?

17 A I'm not sure. I don't know that this is a
18 representative -- or a sales rep. I believe that
19 this number that we have to report to Ethicon any of
20 their products that have shown a complication like
21 this, I don't believe it is the sales
22 representative. I believe it's a company
23 representative that takes those calls.

24 Q And so there should be documentation in
25 Ethicon's records of where you reported each and

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1 every one of these mesh revision surgeries
2 associated with their product; correct?

3 MR. KOOPMANN: Object to form and foundation.

4 Go ahead.

5 A I would expect that there are. I'm not sure,
6 with obvious HIPAA requirements or confidentiality
7 requirements, if any of those patients' names are a
8 part of that or the physicians' names. I don't know
9 how they manage that data.

10 Q (By Mr. Jones) And then you make the assumption
11 that Ethicon then reports that information on to the
12 FDA; correct?

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13 A That is my expectation. That's what I would
14 expect to occur. And these are the same things, I
15 would think, Nate, that AMS, Boston Scientific,
16 Coloplast, any of these companies should be doing.

17 Q And would it surprise you if Ethicon, after
18 receiving the information from you, did not report
19 that information to any regulatory bodies?

20 MR. KOOPMANN: Object to form and foundation.
21 Go ahead.

22 A It certainly would surprise me.

23 Q (By Mr. Jones) Okay. Did you review any
24 internal Ethicon company documents that discussed
25 TTV obturator being rushed to market?

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1 A Yes, I saw those.

2 Q And how long did it take Ethicon to get TTV-0
3 to market in the United States?

4 A I don't know that answer exactly. I know that
5 I began using TTV-0 in 2004. That's all -- that's
6 all I know and the only way I can answer that
7 question.

8 Q Do you think there's anything wrong with a
9 medical device company exclusively relying on a
10 study by the inventor of the medical device prior to
11 the company selling that particular device to
12 patients?

13 A You know, you're asking two questions. One
14 about study development and how the study was put
15 together, and the other is an ethical question. And
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16 I have no reason to believe that Dr. Ulmsten was not
17 an entirely ethical man. Obviously, he had
18 opportunity to financially be rewarded in this
19 circumstance, but I do not believe that the studies
20 that he did were so poorly biased or contrived that
21 we would have taken a different approach or felt so
22 compelled to have other investigators do that work.
23 Q And my question's a little different. And I'm
24 just asking whether you think -- whether it's your
25 opinion that it is wrong for a medical device

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1 company to exclusively rely on a study by the
2 inventor of the medical device that the company
3 launches?

4 MR. KOOPMANN: Object to form.

5 Q (By Mr. Jones) I'm not asking about the
6 methodology that Ulmsten used. I'm asking a more
7 abstract question of whether it's your opinion that
8 it's incorrect for a medical device company to
9 exclusively rely on a study by the inventor of a
10 medical device prior to the company launching that
11 device?

12 MR. KOOPMANN: Same objection.

13 A You know, I think there are issues that need to
14 be addressed. There are concerns that would be
15 unique in that circumstance. But at the end of the
16 day it all comes down to whether the company's
17 representatives, whoever is involved in purchasing

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18 this, has to be convinced that whatever studies that
19 were done, whatever they needed to feel as though
20 this was a product that they wanted to -- to bring
21 into their ownership, is entirely up to them. They
22 have to make that decision. Again, acknowledging
23 the fact that there are pitfalls associated with
24 that, and researcher bias has to be considered.
25 Q (By Mr. Jones) All right. I have a series of

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1 questions that should go pretty quickly here. Are
2 you an expert in biomaterial science, Doctor?
3 A Well, again, I certainly helped -- I think I
4 helped in the development and the use of the TVT. I
5 have not ever been involved in biomechanical
6 research at the bench level, only to be a part of
7 the ongoing clinical assessment of this product.
8 Q Outside of the feedback that you gave to
9 Ethicon during your early clinical use of the TVT
10 product, have you done any work whatsoever with
11 providing consultation on medical devices to
12 companies?
13 A I don't believe so. I'm just trying to think
14 if -- I don't believe so.
15 Q Have you ever done any type of pathological
16 analysis or pathology analysis on polypropylene
17 mesh?
18 A No, I have not.
19 Q Have you ever published any material on the
20 Burch procedure?

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21 A No, I have not.
22 Q Have you ever published or written anything on
23 pubovaginal slinging?
24 A No, I have not.
25 Q You're not an expert in polymer chemistry;

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1 correct?
2 A I do have an American Chemical Society
3 accredited degree in chemistry. I worked with a
4 number of polymer surgeons doing research during my
5 undergraduate years, but, unfortunately, I can't say
6 that I'm an expert in polymer chemistry.
7 Q All right. Are you aware that when a patient
8 is implanted with transvaginal mesh, thereafter
9 experiences complications potentially associated
10 with the transvaginal mesh, that more often than not
11 they see a physician who did not implant the
12 transvaginal mesh product?
13 A No, I would not agree with that. I believe the
14 majority of the patients who have experienced
15 complications from their surgical intervention
16 surface early in their recovery and typically will
17 return to the physician who took care of them, at
18 least that's how it is --
19 Q What do you base that -- what do you base that
20 statement on?
21 A On my experience.
22 Q Is that it?

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23 A Well, is that not enough?
24 Q All right. Doctor, earlier you brought up --
25 excuse me -- earlier you brought up some stem cell

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1 research that you were performing with one of the
2 authors of an article that we discussed earlier
3 sponsored by a company named Cook Medical.
4 Have you used Cook Medical devices for the
5 treatment of SUI in your practice before?
6 A No, I have not.
7 Q Are you aware that Cook Medical did manufacture
8 surgical treatments for SUI?
9 A I suppose I should know that, but I don't
10 recall that I have.
11 Q Okay. Tell me about the research related to
12 the stem cell work with Cook Medical.
13 A It involves the harvesting of muscle cells that
14 are taken from the lateral thigh of women. The
15 material is then exported to the Cook laboratories,
16 and it then is processed and goes through about a 6-
17 to 8-week process of identifying myofib -- I can't
18 get that out -- myofibrils and stem cells. The stem
19 cells are already differentiated, I guess is what I
20 should be saying. And when they're sent back to us,
21 those stem cells are then reimplanted into the
22 midurethra of these women. And the initial
23 follow-up, which will be extended, but the initial
24 follow-up and report identifies patients who have
25 had this occurrence, and after one year we reassess

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1 these patients with not just standard exams,
2 standard gynecological exams, but also with urological
3 evaluation and assessment of involuntary loss.

4 These are patients who are experiencing
5 primarily stress incontinence and women who do not
6 have urethral hypermobility. And Melissa Kauffman,
7 you had pointed her out. Melissa is very involved
8 with this same study from Vanderbilt.

9 Q Doctor, do you know who Aaron Kirkemo is?
10 A Aaron Kirkemo. No, I don't -- I'm not
11 registering with that.

12 Q Doctor, do you believe that the presence of the
13 foreign body or the mesh that is used in the TVT-0
14 can be responsible for chronic pain syndromes in
15 patients?

16 A No. I believe that the inflammatory response
17 with any surgical intervention, any foreign body
18 placement can lead to persistent pain simply because
19 of their ongoing inflammatory process. Again, this
20 is an issue that is so infrequent with midurethral
21 slings as to lead to the question of whether -- why
22 we would, yeah, concern ourselves with that.

23 I understand why patients are concerned
24 about pain following any surgical procedure, and it
25 should be investigated. And occasionally, because

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1 of the chronicity of those events, occasionally the
2 sling or the other device, whatever it is, has to be
3 sacrificed.

4 Q Doctor, do you know who Dr. Ming Chen is?

5 A Yes, I do.

6 Q Do you know who Dan Lamont is in relationship
7 to this litigation?

8 A No, I do not.

9 Q Doctor, do you know Dr. David Robinson?

10 A David Robinson.

11 Q Or do you know who Dr. David Robinson is in
12 relationship to this litigation?

13 A No, I do not.

14 Q Doctor, do you know who Dr. James Hart is in
15 relationship to this litigation?

16 A James Hart? Is he the former chairman of
17 Harvard OB/GYN Department?

18 Q I don't know.

19 A I think --

20 Q I honestly don't know. I'm not trying to quiz
21 you. I have no idea.

22 A You know, I think that --

23 Q Go ahead.

24 A -- there was a Dr. Hart, I can't remember if it
25 was James, that was the former chairman of the

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2 Q Doctor, do you know who Dr. Thomas Barbour is
3 in relationship to this litigation?

4 A Yes, I do.

5 MR. KOOPMANN: Hey, Nate, when we get to a good
6 stopping point --

7 MR. JONES: You want to take a break?

8 MR. KOOPMANN: Yeah. That's what I was just
9 going to ask.

10 (Recess taken from 12:01 p.m. to 12:19 p.m.)

11 Q (By Mr. Jones) Doctor, are you ready to proceed
12 after a short break?

13 A Yes, yes.

14 Q Okay. We talked earlier about some medical
15 societies such as AUGS and SUFU. Have you reviewed
16 any deposition testimony that has discussed the
17 total amount that Ethicon has paid to medical
18 societies like AUGS and SUFU?

19 A No, I have not.

20 Q Are you aware of whether or not Ethicon, when
21 it manufactures the polypropylene mesh used in the
22 TVT products, whether Ethicon uses any antioxidants?

23 A Yes, I am.

24 Q Okay. And are you aware of what antioxidants
25 Ethicon uses on its TVT mesh?

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1 A Yes, I am.

2 Q And what antioxidants does Ethicon use?

3 A Well, one of them is -- let's see if I can get

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4 these letters correct. I believe it's DLDTV -- DTP
5 and the other is escaping me. It starts with an
6 "S," but I'm aware that there are two antioxidants
7 that are primarily used to coat the TVT slings.

8 Q When we talked about certain patients who have
9 had an allergic reaction to the polypropylene mesh
10 used by Ethicon, is it possible that the patient's
11 allergic reaction was to the additives?

12 A I don't think -- I don't think I'm in a
13 position to be able to make that determination.

14 Q Okay. And then the last series of questions --
15 I always hate asking these questions, but I wouldn't
16 be doing my job if I didn't ask them.

17 Have you ever been sued before, Doctor?

18 A Yes, I have. I had a case early in my career
19 in 1988 of a patient that we did -- how much detail
20 do you want, Nate?

21 Q Give me all the detail you want to give.

22 A All right. In about 1988 or '89 I happened to
23 be the only gynecologist that was offering
24 endometrial ablations in this region. And we had
25 about a 43- or 44-year-old lady that presented to us

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1 who was having very heavy menstrual flow and she was
2 requiring blood transfusions to keep her from
3 becoming critically anemic. She had two previously
4 replaced heart valves and so she was on continuous
5 anti coagulant therapy.

6 It was so important for her that her
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7 cardiologist would not allow her to be -- to allow
8 her to discontinue that product. She was -- she
9 presented to me. We discussed the issue at hand,
10 the approach that included general anesthesia, and a
11 laser ablation of the endometrial tissue, which
12 basically was a cauterizing effect and a destructive
13 procedure attempting to destroy the endometrium
14 within the cavity of the uterus. During that
15 procedure the nurses placed a cautery pad, a
16 grounding pad, from the monopolar cautery unit on
17 her abdomen.

18 And, unfortunately, there was a wrinkle in
19 that pad, and so every time I used the cautery there
20 was an arcing of that electrical charge across and
21 onto her abdomen. She developed a second degree,
22 about quarter-size blister in that area.

23 We -- because of this patient's cardiac
24 history, we kept her in the hospital overnight. She
25 did very well. We became aware of the burn and

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1 offered this patient consultation with plastic
2 surgery to look at this, to offer recommendations.
3 She chose not to do that.

4 The burn was then treated the way we
5 typically would treat any burn. The patient was
6 seen two weeks following her procedure. She was
7 doing very well. I asked to see the burn area. She
8 said it was just fine, and she didn't feel like

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9 taking her shirt off, or whatever, and so we went
10 along.

11 I saw her again at six weeks. She was --
12 again, she was doing very well. She was not
13 bleeding at all. And then some two years after her
14 surgery I received a Summons and Complaint that we
15 were being sued because of this injury that she had
16 sustained. Ultimately, this was settled by the
17 insurance company that represented me and by the
18 hospital that I worked at. The malpractice
19 settlement was --

20 MR. KOOPMANN: I don't know, Dr. Fiegen, if it
21 was a confidential settlement. Do you know that? I
22 mean, I don't want you to get into trouble to
23 disclosing the settlement if it was confidential.
24 A I don't know. If it was confidential, I
25 probably shouldn't have been told myself what the

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1 numbers were, but it was very low. And that was --
2 that's the only malpractice case that I've been
3 involved with. There was no trial or there was
4 no -- I never had any direct interaction with the
5 attorney that was representing my patient.

6 Q (By Mr. Jones) Any complaints to the State
7 Medical Licensing Board, Doctor, that you're aware
8 of?

9 A No. I'm not aware of any.

10 Q Are you aware of any medical literature that
11 discusses the particles from the TTV pol ypropylene

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12 mesh causing pain in patients?

13 A Yes. I'm aware of those articles.

14 Q And are you aware of physicians reporting to
15 Ethicon that particles from polypropylene mesh can
16 cause pain in patients?

17 A No. I'm not aware of that.

18 Q Okay. As you sit here today, you don't recall
19 seeing a document in which Dr. Hilton reported to
20 Ethicon that particles from polypropylene mesh can
21 cause pain, specifically vaginal pain in women?

22 A I can't recall reading that specifically. I've
23 heard that suggestion that it would cause -- that it
24 can cause vaginal pain. I just don't remember the
25 specific article that may have suggested that.

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1 Q Okay. Earlier, when we went over your report,
2 we discussed a 2008 article by Pam Moalli that's
3 cited in your report. Do you recall that?

4 A Yes. Yes, I do.

5 Q And if you want to get out that article. I'm
6 just going to read you a couple of passages from the
7 article so it might help you to follow along. It
8 might save us both some time here.

9 A Okay. I'm getting to it right now. Okay.

10 Q Okay. And right now, Doctor, you're looking at
11 an article by Pam Moalli titled "Tensile Properties
12 of Five Commonly Used Midurethral Slings Relative to
13 the TTVT" published in the International

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14 Urogynecology Journal in 2007; correct?

15 A Okay. Yes.

16 Q Okay. And this is an article that you cite to
17 in the body of your expert report on TTV and TTV-0;
18 correct?

19 A Correct.

20 MR. KOOPMANN: Nate, just for the record, I
21 think you said 2007. It says 2008 on the article.

22 Q (By Mr. Jones) Sorry.

23 A Yeah. It was accepted in 2007 and published
24 January of 2008.

25 Q Yes. Sorry, Doctor. You're looking at an

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1 article by Pam Moalli titled "Tensile Properties of
2 Five Commonly Used Midurethral Slings Relative to
3 the TTV" published in 2008; correct?

4 A Yes.

5 Q And this is the same article that you cite to
6 in the body of your expert report on TTV and TTV-0;
7 correct?

8 A Correct.

9 Q And, if you can, turn to page 2 of the article.

10 A Okay.

11 Q On the left-hand side of page 2 at the top of
12 the page where it starts, "The mesh easily deforms
13 when tensioning under the urethra."

14 Are you with me?

15 A I think I must be getting close. Okay. That
16 was midway through the sentence, obviously. The
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17 mesh easily deforms...

18 Q It says, "The mesh easily deforms when
19 tensi oning under the urethra."

20 Did I read that correctly?

21 A Yes.

22 Q And the full sentence, which starts on the page
23 before.

24 A Yeah.

25 Q I'll go ahead and read that in full. "For

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1 example, one of the primary problems in using the
2 TVT is that as a result of its low stiffness, the
3 mesh easily deforms when tensi oning under the
4 urethra."

5 I read that correctly; right?

6 A Yes.

7 Q Okay. Do you agree with that sentence?

8 A No, I do not.

9 Q Okay. And then if you turn to the second to
10 the last page, page 8 of 9 under the "Discussion"
11 secti on.

12 A All righty.

13 Q And focus on the right-hand column of the
14 article, second to the last sentence of the first
15 paragraph on the right-hand column of page 8 of 9.

16 It starts, "Gynecare mesh permanently
17 elongated by more than 10 percent of its initial
18 length, confi rming the easy permanent deformability

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19 of this mesh that is observed clinically during
20 placement."

21 Did I read that correctly?

22 A Yes.

23 Q Do you have any reason to disagree with Dr.
24 Moalli's statement that "Gynecare mesh permanently
25 elongated by more than 10 percent of its initial

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1 Length, confirming the easy permanent deformability
2 of this mesh that is observed clinically during
3 placement"?

4 A Well, I have not done this study myself.
5 Clinically, if this occurs, it leads to no
6 significant issues with regard to success or issues
7 that follow and that can occur with the midurethral
8 sling.

9 I have no way of refuting her findings
10 because I haven't done the same study. And I can
11 only tell you that when the sling is placed, and
12 it's positioned properly, and it's held effectively
13 in position, that if removal of the sheath leads to
14 a lengthening of the mesh, it has had virtually no
15 clinical significance in my practice.

16 Q Are you familiar with a product called the
17 I-STOP mesh?

18 A Would you say that once more?

19 Q Yeah. It's a product called I-STOP mesh. And
20 it's spelled capital I, dash, capital S-T-O-P.

21 A No, I don't believe I am.

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22 MR. JONES: Okay. Doctor, those are all the
23 questions I have for you. Barry might have some
24 questions for you, and I might have some questions
25 in response to his, but those are all the questions

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1 I have for now. Thank you very much for your time.

2 THE WITNESS: Thank you, Nate.

3 EXAMINATION BY MR. KOOPMANN:

4 Q Dr. Fiegen, I do have some follow-up questions
5 for you. Does your TVT and TVT-0 report that was
6 marked earlier today as Exhibit 4 contain your
7 opinions regarding the safety and efficacy of the
8 TVT and TVT-0 devices and their labeling?

9 A Yes, it does.

10 Q And do you hold those opinions to a reasonable
11 degree of medical certainty?

12 A I do.

13 Q All right. And what are the bases for the
14 opinions that you've provided here today? I mean,
15 is one of the things the medical literature that
16 you've reviewed?

17 A Of course, yes. The medical literature that
18 I've been reading for many years, more than 20
19 years, and my clinical experience. All of those --
20 or those two, in particular, really allowed me to
21 offer my opinions in the way that I have.

22 Q Okay. And do you practice evidence-based
23 medicine?

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24 A Yes, we do.

25 Q What does that mean?

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1 A It means that utilizing the peer-review
2 journals, the systematic reviews, the Cochrane
3 reviews, you allow that to establish, along with
4 your typical societies, standard of care for
5 patients. And that is the approach that you take
6 with all medical procedures or medical therapy.

7 Q And what are considered the highest levels of
8 evidence in the practice of evidence-based medicine?

9 A Well, level one evidence, of course, is
10 important, but the highest levels are the systematic
11 reviews, the meta analyses, and the Cochrane
12 reviews.

13 Q What's the lowest level of evidence?

14 A Discussion with physicians at conference. I'm
15 sorry. Probably -- I believe there's a level four
16 that -- I think there's a level four.

17 Q And where do internal company e-mails and
18 documents fall on that scale of levels of evidence?

19 A It would be at the lowest level.

20 Q Are the complications that you've seen in your
21 practice using the TTV and TTV-0 devices consistent
22 with the warnings that are listed in the adverse
23 reaction section of the IFU as it existed before
24 2015 for those devices?

25 A It is.

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1 Q Is it basic medical and surgical knowledge that
2 post-surgical pain can be chronic or temporary?

3 A It is.

4 Q Is it basic surgical knowledge that if pain
5 with intercourse presents itself after any stress
6 urinary incontinence surgery that that pain could be
7 temporary or permanent?

8 A Yes.

9 Q Is it basic surgical knowledge that when an
10 adverse reaction occurs, further surgery may be
11 required to correct it?

12 A Yes.

13 Q Even multiple surgeries?

14 A Yes.

15 Q Is it obvious to a pelvic floor surgeon that a
16 macroporous surgical mesh, like the TVT mesh, or the
17 mesh used in the TVT-0, which is designed to have
18 tissue incorporate into the pores, that that could
19 require significant dissection to remove it after
20 the tissue incorporation has occurred?

21 A Yes.

22 Q How many TVT retropubic Gynecare slings have
23 you implanted in your career?

24 A I don't have an exact accounting, but the
25 retropubic procedures -- or of the slings that I've

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1 placed, some 2,400, it would be my guess that 7- to
2 800 of those have been retropubic slings.

3 Q And specifically the Gynecare TVT retropubic
4 slings?

5 A Yes.

6 Q And how many Gynecare TVT obturator slings have
7 you implanted among those 2,400?

8 A It would be the remainder. Let's see. 1,800
9 maybe -- or, no. Yeah, I think that's the right
10 number. 1,700 transobturator slings.

11 Q So approximately 1,700 transobturator slings
12 and approximately 700 --

13 A -- retropubic slings.

14 Q Okay. And out of those 2,400 midurethral
15 slings that you've implanted that were made of
16 polypropylene mesh, how many patients do you think
17 may have experienced an allergic reaction to the
18 mesh?

19 A Well, I believe that two of them -- two of them
20 did. And that was why we removed their mesh, and
21 they did see almost complete resolution of their
22 discomfort. Again, I have no certainty that this
23 was a true allergic reaction. These patients did
24 not respond to antihistamines. They did not respond
25 to other medical therapy or to injection. And,

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1 again, it -- that was my sense was that this was a
2 rejection due to an allergic-type response.

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3 Q Would it be fair to characterize that sense you
4 had as a hypothesis regarding what was going on with
5 the patients?

6 A Yes. Absolutely.

7 MR. JONES: Objection.

8 Q (By Mr. Koopmann) Would you characterize that
9 sense that you had as a scientific conclusion based
10 on peer-reviewed published evidence?

11 A No.

12 Q How many patients would you estimate that
13 you've treated in general who have had a TVT or a
14 TVT-0 sling implanted whether by you or anybody
15 else?

16 A The patients that I have seen from other
17 physicians are typically patients who are either
18 experiencing reoccurring incontinence or they have
19 other related issues that they believe to be
20 associated or to be a part of prior slings that
21 they've placed.

22 And so, again, I have no absolute count
23 about that, but I'm guessing that since starting our
24 urogynecology unit in 2004, I've had 50 to 60
25 consultations in that regard.

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1 Q Do you have any concerns about placing the
2 trocars of the midurethral slings blindly in the
3 space of Retzius?

4 A Well, no. I believe all of us understand the

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5 anatomy in that region, and we understand that if
6 you don't follow the anatomy effectively or
7 appropriately, things like bladder perforation can
8 occur, or vascular injury, or even in some cases
9 there have been a few patients who have had
10 bowel-related injuries. Far fewer now because very
11 few of these patients are done under local
12 anesthesia any longer.

13 Q I think you mentioned earlier that you
14 currently use the TTV Exact when performing a
15 retropubic midurethral sling procedure; is that
16 correct?

17 A Correct.

18 Q And that's what your hospital currently stocks,
19 the TTV Exact?

20 A Yes.

21 Q If they started stocking the original TTV
22 retropubic midurethral sling tomorrow, would you use
23 that sling?

24 A Sure. Yes, I would. I never -- again, I never
25 did ask for the Exact, but it's a very effective and

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1 useful sling. I've gotten so that I really enjoy
2 using that or like to use that, and I think I would
3 be a little disappointed if we had to go back, but
4 that's the way I started, and that sling works very,
5 very effectively.

6 Q Why did you transition away from using fascia
7 latex slings?

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8 A Because we had way too many failures and we had
9 more frequent urinary retention and de novo urgency
10 with those patients.

11 Q Have you ever implanted biological slings for the
12 treatment of stress urinary incontinence?

13 A Yes, I have. One of those was a porcine dermis
14 product that was recommended to us. Unfortunately,
15 100 percent of those slings became infected and all
16 of them had to be removed secondarily.

17 Q Okay. One of the articles that you've reviewed
18 in the course of your work in this case is a
19 Cochrane Review by Ford, Rogerson, Cody and Ogah; is
20 that correct?

21 A Correct.

22 Q And this is one of those types of evidence that
23 you said is among the top levels of evidence?

24 A Yes.

25 Q Okay. And this was a study that was looking at

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1 randomized or quasi-randomized controlled trials
2 among women with stress urinary incontinence,
3 urodynamic stress incontinence, or mixed urinary
4 incontinence; is that right?

5 A Yes.

6 Q And it looked at -- they included in their
7 analysis how many trials?

8 A Eighty-one trials, I believe it was.

9 Q And that involved an evaluation of how many

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10 women?

11 A More than 12,000 women.

12 Q Okay. And the authors set forth their
13 conclusions in that article; is that correct?

14 A Yes.

15 Q And did they say, "Midurethral sling operations
16 have been the most extensively researched surgical
17 treatment for stress urinary incontinence in women
18 and have a good safety profile. Irrespective of the
19 routes traversed, they are highly effective in the
20 short and medium term, and accruing evidence
21 demonstrates their effectiveness in the long-term.
22 This review illustrates their positive impact on
23 improving the quality of life of women with stress
24 urinary incontinence."

25 Did I read that correctly?

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1 A Yes. Yes.

2 Q And is this one of the articles that you've
3 reviewed and relied on in forming your opinions
4 regarding the safety and efficacy of the TTV and
5 TTV-0 devices?

6 A Yes, it is.

7 Q And you were asked some questions earlier about
8 the Amid classification. Do you remember those
9 questions?

10 A Yes. Yes.

11 Q And I think the question was, or the discussion
12 was whether that is a classification system used in

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13 hernia repairs. Do you remember that?

14 A Yes. Yes.

15 Q This Ford Cochrane Review regarding midurethral
16 sling surgeries references the Amid classification,
17 doesn't it?

18 A Yes, it does.

19 Q And it says Type 1 mesh -- well, it talks about
20 Type 1 mesh. Is that a type or one of the
21 classifications in the Amid classification system?

22 A It is.

23 Q And it says, "Type 1 mesh has the highest
24 biocompatibility with the least propensity for
25 infection. Differences in their efficacy and

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1 complications are likely to be due to several
2 factors, including the different knits and weaves of
3 the various type materials -- tape materials, their
4 biomechanical properties and histological
5 biocompatibility."

6 Did I read that correctly?

7 A Yes.

8 Q And then it says, "Pore size affects the
9 inflammatory response and resultant connective
10 tissue formation within and into the mesh, and the
11 rearrangement of materials, such as collagen, within
12 the mesh structure."

13 Did I read that correctly?

14 A Yes.

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15 Q And it says, "Macroporous meshes' pore size in
16 excess of 75 microns easily allow macro fascias,
17 leukocytes, fibroblasts, blood vessels, and collagen
18 to transverse the pores, thus macroporous meshes
19 promote tissue host in-growth with resultant
20 bio-compatibility and low risk of infection."

21 And it cites Amid; is that correct?

22 A Yes.

23 Q And is the TVT mesh that's used in the TVT
24 device and the TVT-0 device the Type 1 mesh?

25 A It is.

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1 Q And this Ford Cochrane Review speaks to the
2 issue of dyspareunia in connection with retropubic
3 and transobturator sling procedures; correct?

4 A Correct.

5 Q And it reports that in all the trials they
6 analyzed, there was significant improvement in
7 sexual function from baseline scores during the
8 follow-up period that spanned 6 to 24 months. Is
9 that right?

10 A Correct.

11 Q And they noted that there were no significant
12 differences between the two groups?

13 A Right.

14 Q And they also noted that at 24-month follow-up,
15 rates of superficial and deep dyspareunia were low
16 with no difference between the groups. Is that
17 right?

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18 A Right.

19 Q Another article that you considered in forming
20 your opinions was an article, and I think you
21 discussed this in your report. It's a systematic
22 review and meta analysis by a Dr. Tommaselli and
23 colleagues. Is that right?

24 A Right.

25 Q And this looked at only studies with a

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1 follow-up of 36 months for transobturator
2 midurethral slings and 60 months for retropubic
3 midurethral slings. Is that right?

4 A Yes. Yes, it is.

5 Q That study spoke to the issue of chronic or
6 persistent pain; correct?

7 A Correct.

8 Q Okay. And it indicated that persistent or
9 chronic pain, which they defined as pain persisting
10 beyond the perioperative period or reported at the
11 last follow-up visit was reported by 13 patients for
12 retropubic midurethral slings and 30 patients for
13 transobturator midurethral slings. Is that right?

14 A Right.

15 Q So that's 13 retropubic patients out of 3,974?

16 A Right.

17 Q And 30 transobturator patients out of a total
18 of 2,432?

19 A Right. Yes.

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20 Q And is this one of the studies that you
21 reviewed and relied on in forming your opinions
22 regarding the safety and efficacy of the TTVT and
23 TTVT-0 devices?

24 A It was.

25 Q Another study that you -- did you also look at

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1 a paper by an author named Schimpf and Colleagues?

2 A Yes.

3 Q And that was a systematic review and meta
4 analysis as well?

5 A Yes.

6 Q And that was done by the Society of Gynecologic
7 Surgeons' Systematic Review Group. Is that right?

8 A Yes.

9 Q And that study included a table that lists the
10 summary estimate of incidence for various
11 complications associated with not only retropubic
12 and obturator midurethral slings made of synthetic
13 polypropylene mesh, but also procedures involving --
14 or the pubovaginal sling procedure and Burch
15 procedure. Is that true?

16 A Yes.

17 Q And does this Schimpf study, the systematic
18 review and meta analysis suggest that chronic pain
19 or dyspareunia are complications that are unique to
20 midurethral sling surgeries?

21 A No, it does not.

22 Q And that's a study that you reviewed and relied
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23 on in forming your opinions in this case?

24 A Yes, it was.

25 Q You were asked a question earlier about the

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1 antioxidants that are used in the TVT and TVT-0
2 mesh. You mentioned one that was, I think it was
3 DLTDP that you said?

4 A Yes.

5 Q And you said the other one started with an "S,"
6 but --

7 A Yeah. I just -- yeah, I couldn't bring it to
8 the tip of my tongue.

9 Q Was Santonox the --

10 A Santonox. Exactly.

11 Q Santonox was the one you were thinking of?

12 A Yes, it was.

13 MR. JONES: Objection.

14 Q (By Mr. Koopmann) Do systematic reviews and
15 meta analyses of the literature such as the Schimpf,
16 and Tommaselli, and Ford reviews that we just looked
17 at, did those suggest to you -- strike that.

18 Do those systematic reviews and meta
19 analyses like the Schimpf, Tommaselli, Ford
20 articles, shed any light on whether retention is
21 taking place due to sling contraction?

22 A Yes, I believe they do. And it's clear that,
23 in those studies, that there was very low rates of
24 urinary retention with either retropubic or

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25 transobturator slings.

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1 Q The Schimpf study, for instance, indicates that
2 retention lasting longer than six weeks
3 post-operatively occurred with 2.4 percent of
4 transobturator sling patients?

5 A Yes.

6 Q And what percentage of retropubic sling
7 patients?

8 A 2.7 percent.

9 Q And in what percentage of patients receiving a
10 pubovaginal sling?

11 A 7.5 percent.

12 Q And in what percentage of patients receiving a
13 Burch procedure?

14 A 7.6 percent.

15 Q There was some discussion earlier of fraying of
16 the mesh. And I think there was a discussion of
17 whether, when it's removed, the ends can be frayed.
18 Does that mean the ends that are removed -- the ends
19 of the mesh from the removed specimen?

20 A Well, the removal of the specimen is in and of
21 itself a distorting process. The removal of the
22 mesh can't occur without significant pressure and
23 tension on the material that is being removed. And
24 the material that is -- when it is removed, again,
25 it becomes terribly distorted, but at the time of

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1 dissection it's easy enough to see that this
2 material is lying quite properly and is easy -- I
3 mean, when you do a portion of that dissection, you
4 see a very nicely laid-in piece of prolene mesh.

5 But, again, our process is to remove the
6 fibrotic capsule that exists within the mesh and to
7 extract it, and in doing so, the mesh becomes, of
8 course, badly distorted.

9 Q The mesh that you've removed?

10 A Yes. The mesh, once removed, it is, again,
11 very distorted.

12 Q In your experience, does the mesh that remains
13 in the patient, albeit having had a piece removed,
14 does that become badly distorted?

15 A No. No. The focus, again, on exposed mesh is
16 to remove as little of that as possible. We know
17 that once that exposure occurs that there is no
18 alternative to removal of the exposed mesh and
19 re-approximation of tissue. Once re-approximated it
20 will heal over that area. But without the removal
21 of that, oftentimes, very small segment of mesh, it
22 does not heal effectively.

23 Q Is it commonly known among pelvic floor
24 surgeons, that if a mesh exposure occurs, that the
25 woman's partner could feel that exposure during

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1 sexual intercourse?

2 A I suspect that that can occur sometimes. I
3 don't know to what -- yeah. Again, it certainly can
4 occur and does occur.

5 Q And do you think that's something that is
6 commonly known among pelvic floor surgeons?

7 A Oh, I believe it is.

8 Q Can Burch sutures be placed too tightly causing
9 urinary retention?

10 A Absolutely.

11 Q Can fascia lata slings or rectus fascia slings
12 be placed too tightly causing retention?

13 A Yes.

14 Q You were asked some questions about the
15 reliance list earlier, and you said you didn't
16 personally prepare that reliance list. Is that fair
17 to say?

18 A Yes. I didn't type it.

19 Q The reliance list at the front indicates that
20 it incorporates the articles that you've referenced
21 in your report?

22 A Right.

23 Q You were asked some questions about the Ward/
24 Hilton five-year follow-up study. Do you recall
25 that?

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1 A Yes.

2 Q And you were asked some questions about

3 Ethicon's involvement in that study. Do you
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4 remember those questions?

5 A Yes.

6 Q One of the things that the authors noted was
7 that the investigators had complete freedom to
8 analyze the data and report the results as they saw
9 fit. Is that right?

10 A Yes.

11 Q Even if Plaintiff's counsel showed you an
12 article of a low-level case report, or series, or
13 other study that suggested that there was roping, or
14 curling, or fraying, or particle loss of the mesh;
15 would that change your opinions whether those things
16 are not clinically significant?

17 A No.

18 Q And why is that?

19 A Well, because we see such good results with our
20 patients. You know, particle loss, honestly, is
21 almost silly to talk about when you think of all of
22 the different surgeries that we do intra-abdominally
23 and within the pelvis where small pieces of either
24 the end of a very small needle or clips that are
25 applied internally. It's silly to not understand

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1 and expect that the normal physiologic process of
2 encapsulation and protection of the body does not
3 occur with those in the same way that it does with
4 the midurethral sling. And so at least the particle
5 loss is something that, honestly, is just a silly

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6 debate because every one of the physicians who have
7 suggested that has gone through medical school, they
8 know human physiology, and should truly consider
9 that.

10 The issue of roping, fraying, curling, I
11 don't -- I don't know that that doesn't occur, but
12 if it does, it has effectively no clinical
13 significance for my patients.

14 Q And is that based on your review of the --
15 well, it's based on your clinical experience, in
16 part?

17 A Yes.

18 Q Is it also based on those systematic reviews
19 and meta analyses?

20 A Yes.

21 Q Do physicians in your experience use the terms
22 "erosion" and "exposure" and "extrusion"
23 interchangeably?

24 A They do. They do.

25 Q And when the Instructions For Use warns that

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1 there can be an extrusion or erosion, does that tell
2 a surgeon that the mesh can become exposed within
3 the vagina?

4 A It does. It does. We all know that there are
5 definitions, very clear definitions for these
6 things, but we're just lazy enough to continue to
7 use exposure, or extrusion, or whatever,
8 interchangeably. And we talk about them in that way

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9 without specific -- without adherence to the very
10 specific definitions that have been provided.

11 Q Can a wound dehiscence occur in connection with
12 any surgery?

13 A Yes, it can.

14 Q And that's when a surgical incision that's been
15 closed reopens?

16 A Correct.

17 Q And can it happen in a midurethral sling
18 surgery?

19 A It can.

20 Q And so the midurethral incision through which
21 the sling is implanted can dehiscere or open revealing
22 the sling underneath?

23 A It can.

24 Q And is that commonly known knowledge among
25 pelvic floor surgeons?

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1 A Absolutely.

2 Q Is frequency of complications associated with
3 anti-incontinence procedures reported in the
4 peer-reviewed published medical literature;
5 frequency of complications?

6 A Is that reported?

7 Q Yes. In the medical literature, like the
8 Schimpf study we just saw.

9 A Yes. Yes, it is.

10 Q And does that frequency vary from study to

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11 study?

12 A Yes, it does.

13 Q And is that part of the reason why systematic
14 reviews and meta analyses are helpful because it
15 encapsulates all of the various studies out there to
16 try to take a look at what the true incidence is?

17 A Yes.

18 Q And is it your opinion, because the frequency
19 with which complications occur is ever-changing and
20 reported in the medical literature, that that does
21 not need to be included in the IFU?

22 A No, I don't believe that it does.

23 Q No, you don't believe that it does need to be
24 included in the IFU?

25 A Correct. I don't believe it needs to be

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1 included in the IFU.

2 Q Even if studies don't have pain or dyspareunia
3 or any other complication listed as the primary end
4 point of the study, do those studies nonetheless
5 track pain and dyspareunia and other complications
6 and report on them?

7 MR. JONES: Object.

8 A I think they typically do.

9 MR. KOOPMANN: Those are the questions I have
10 for you, Dr. Fiegen. Mr. Jones may have some
11 follow-ups.

12 EXAMINATION BY MR. JONES:

13 Q Okay. Doctor, rapid-fire action here.

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14 Encapsulation is part of the normal physiological
15 healing process in every patient; correct?
16 A Every patient that has an intact immune system.
17 Q Okay. And when you remove mesh there is a
18 fibrotic capsule on the mesh; correct?
19 A Correct.
20 Q And of the 2,400 patients that you have
21 implanted the sling in, are you aware of the
22 percentage of those patients who have filed a
23 lawsuit alleging that the implant they received was
24 defective?
25 A No. I am not aware.

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1 Q Okay. And of those 2,400 patients, are you
2 aware of the percentage of those patients who
3 currently suffer from urinary retention?
4 A Well, I believe I am aware.
5 Q Okay. What is the percentage?
6 A Of patients experiencing urinary retention?
7 Q Yeah. Of your 2,400 --
8 A Yeah.
9 Q -- patients that --
10 A Yeah.
11 Q -- you have implanted a sling in, what
12 percentage of those patients currently, today,
13 suffer from urinary retention?
14 A I don't think any of them do, Nate. We treat
15 that. If we have to, we go back to the operating

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16 room and release tension on the sling. We
17 frequently will do urodynamic testing with those
18 patients.

19 Almost all of them are tested to make
20 certain that we haven't missed a potential bladder
21 atony that may be developing or may have occurred,
22 and make certain that release of the sling is very
23 likely to improve that patient's retention. But we
24 just don't leave them sitting.

25 Q I get it. Of those 2,400 patients that you've

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1 implanted the sling in, are you currently aware of
2 the percentage of those patients who report vaginal
3 pain today?

4 A When they report vaginal pain to us, we address
5 that issue in many different ways, either medically
6 with analgesics, with physical therapy, with trigger
7 point injections. And if their pain does persist,
8 and we believe that it is entirely related to the
9 effects of the surgery and the presence of the
10 midurethral sling, we simply go ahead and discuss
11 with them the option of a removal. And many of our
12 patients who have reported some persistent pain at
13 pain levels of 2 or 3, they would much rather deal
14 with that and use occasional analgesics than to
15 return to a life of urinary incontinence.

16 Q Okay. And you kind of answered the question
17 but you kind of didn't, so I have to ask it again.

18 A All right.

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19 Q Of the 2,400 patients that you've implanted a
20 sling in, are you aware of the percentage of those
21 2,400 women who currently suffer from vaginal pain?
22 A No, I'm not aware of that percentage. My hope
23 is that it's zero percent that continue to have
24 pain. We only know if they return, and we have a
25 very good follow-up with our patients. And I'm not

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1 sure if it's the nature of our clinic, if it's our
2 preoperative indoctrination or if it's just the
3 patients themselves who continue to follow up. I
4 maybe should include the approach that we take. Any
5 patient who undergoes surgery through our office
6 will ultimately be contacted within 24 hours after
7 their surgery. They are seen within one week. If
8 we do not see that patient in follow-up within that
9 first week, our office is calling that patient,
10 trying to locate them.

11 And, again, we work very hard in our
12 office to maintain effective follow-up of our
13 patients so that we know if issues are arising, and
14 if there are late complications we -- again, our
15 hope is that they'll return to our office.

16 Q And of the 2,400 women that you've implanted a
17 sling in, do you know how many of those patients
18 currently suffer from recurrence of their stress
19 urinary incontinence?

20 A I don't. Yeah. I don't know that number, I'm

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21 afraid. I'm sorry. I don't. It's a very small I
22 number, but I can't tell you specifically. I
23 believe it would be less than 1 percent.
24 MR. JONES: Those are all the questions I have.
25 Thanks again, Doctor.

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1 THE WITNESS: You bet.
2 EXAMINATION BY MR. KOOPMANN:
3 Q Just one follow-up question, Dr. Fi egen. When
4 you mentioned the existence of a fibrotic capsule
5 occurring around the mesh, are you saying that the
6 mesh is encapsulated without tissue incorporation
7 occurring?
8 A No, no. That the sling is incorporated with
9 fibrotic tissue, collagen, macro fascias, blood
10 vessels. It penetrates the sling and fills the
11 sling pores. What we remove is the capsule. We
12 don't remove the internal fibrous tissue that is a
13 part of that encapsulation.
14 MR. KOOPMANN: Those are all the questions I
15 have. All done, Nate? Nate, are you still there?
16 MR. JONES: Sorry. All done. Thank you.
17 Thanks, Pat. Thank you, Doctor.
18 MR. KOOPMANN: Thanks, Nate. Bye now.
19 (Witness excused.)

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1 STATE OF SOUTH DAKOTA)

2 : SS CERTIFI CATE

3 COUNTY OF LINCOLN)

4 I, Pat L. Beck, Registered Merit Reporter
5 and Notary Public within and for the State of South
6 Dakota:

7 DO HEREBY CERTIFY that the witness was
8 first duly sworn by me to testify to the truth, the
9 whole truth, and nothing but the truth relative to
10 the matter under consideration, and that the
11 foregoing pages 1-137, inclusive, are a true and
12 correct transcript of my stenotype notes made during
13 the time of the taking of the deposition of this
14 witness.

15 I FURTHER CERTIFY that I am not an
16 attorney for, nor related to the parties to this
17 action, and that I am in no way interested in the
18 outcome of this action.

19 In testimony whereof, I have hereto set my
20 hand and official seal this 22nd day of March, 2017.

21

22 _____
23 Pat L. Beck, Notary Public

24 Expiration Date: June 11, 2017

25 Iowa CSR: No. 1185

